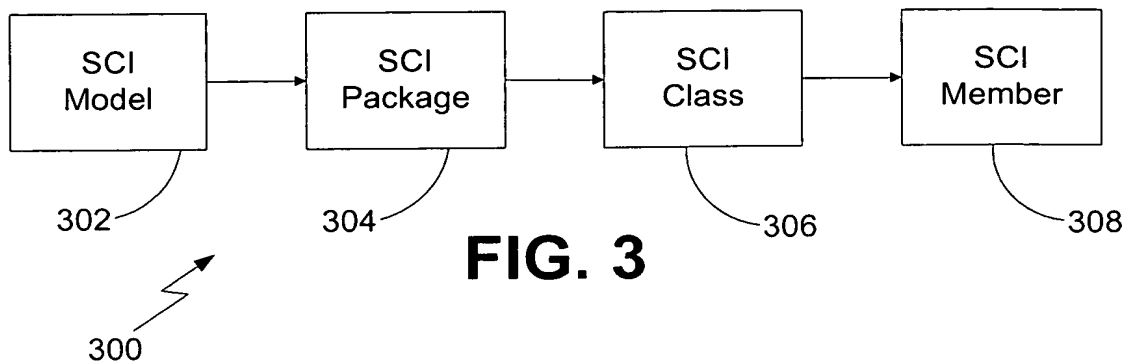
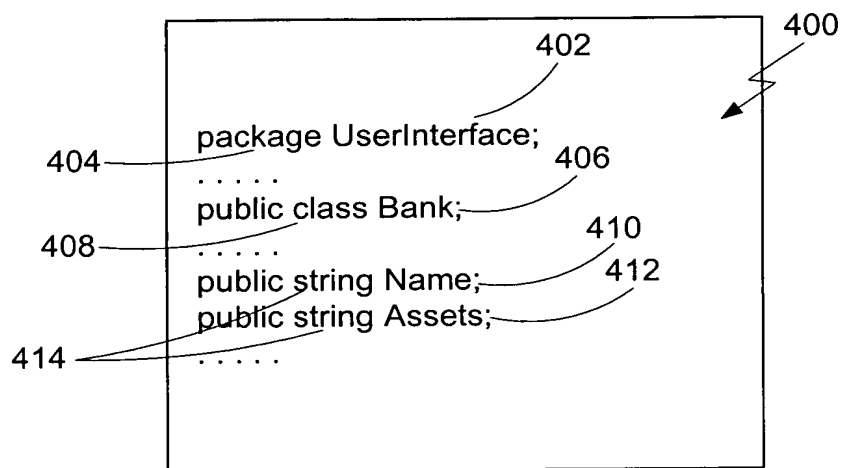


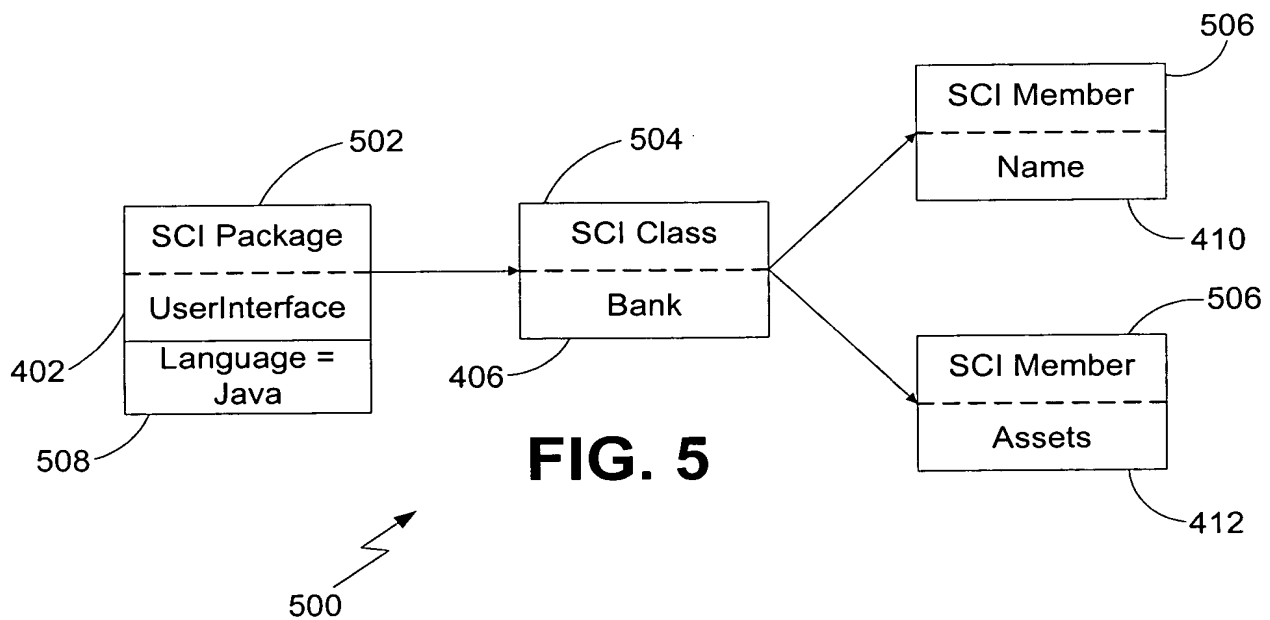
**FIG. 2**



**FIG. 3**



**FIG. 4**



**FIG. 5**

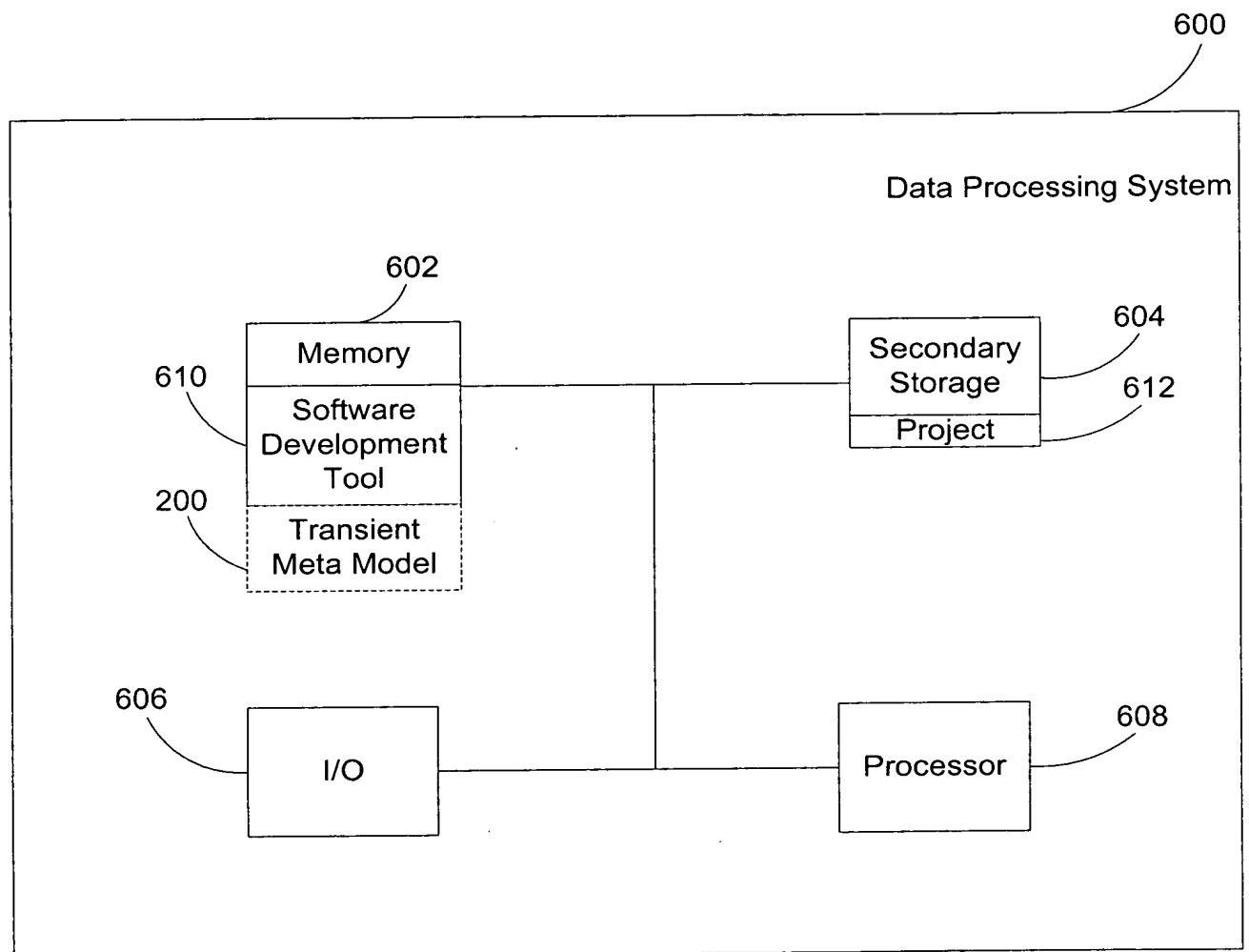


FIG. 6

**FIG. 7**

QA Audit

Title	Abbreviation	Chosen
<input type="checkbox"/> Coding Style		<input checked="" type="checkbox"/>
Access Of Static Members Through Objects	AOSMTO	<input checked="" type="checkbox"/>
Assignment To Formal Parameters	ATFP	<input checked="" type="checkbox"/>
Complex Assignment	CA	<input checked="" type="checkbox"/>
Don't Use the Negation Operator Frequently	DUNOF	<input checked="" type="checkbox"/>
Operator '?' May Not Be Used	OMNBU	<input checked="" type="checkbox"/>
Provide Incremental In For-Statement or use w...	PIIFS	<input checked="" type="checkbox"/>
Replacement For Demand Imports	RFDI	<input checked="" type="checkbox"/>
Use Abbreviated Assignment Operator	UAAO	<input checked="" type="checkbox"/>
Use 'this' Explicitly To Access Class Members	UTETACM	<input checked="" type="checkbox"/>
<input type="checkbox"/> Critical Errors		<input checked="" type="checkbox"/>
Avoid Hiding Inherited Attributes	AHIA	<input checked="" type="checkbox"/>
Avoid Hiding Inherited Static Methods	AHISM	<input checked="" type="checkbox"/>
Command Query Separation	CQS	<input checked="" type="checkbox"/>
Hiding Of Names	HON	<input checked="" type="checkbox"/>
Inaccessible Constructor Or Method Matches	ICOMM	<input checked="" type="checkbox"/>
Multiple Visible Declarations With Same Name	MVDVSN	<input checked="" type="checkbox"/>
Overriding a Non-Abstract Method With an Ab...	ONAMVAM	<input checked="" type="checkbox"/>
Overriding a Private Method	OPM	<input checked="" type="checkbox"/>

Severity: High

800

802

Select all

Unselect all

Set defaults

Save set As...

Load set...

AOSMTO - Access Of Static Members Through Objects

804

Static members should be referenced through class names rather than through objects.

Start

Cancel

Help

FIG. 8A

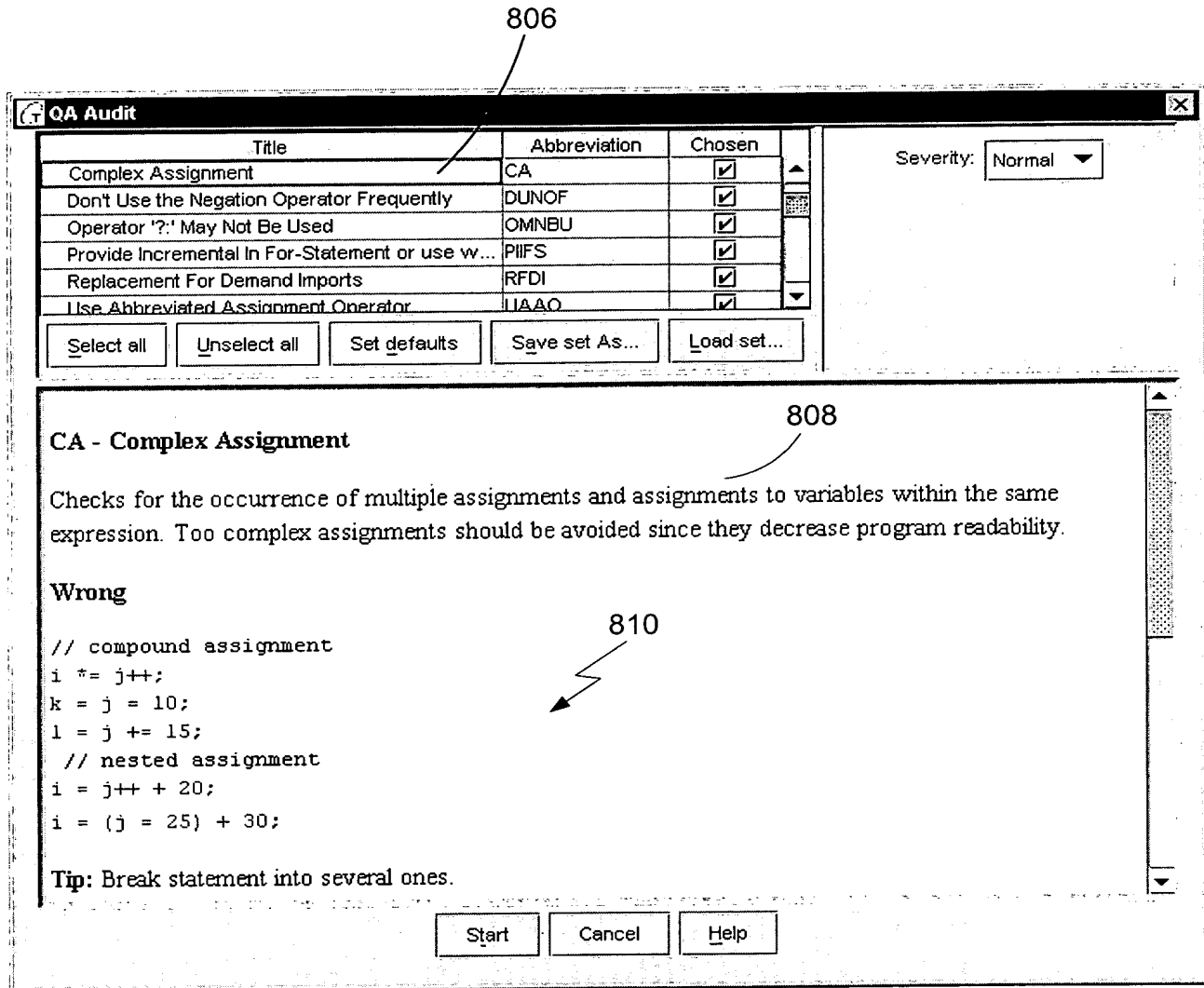


FIG. 8B

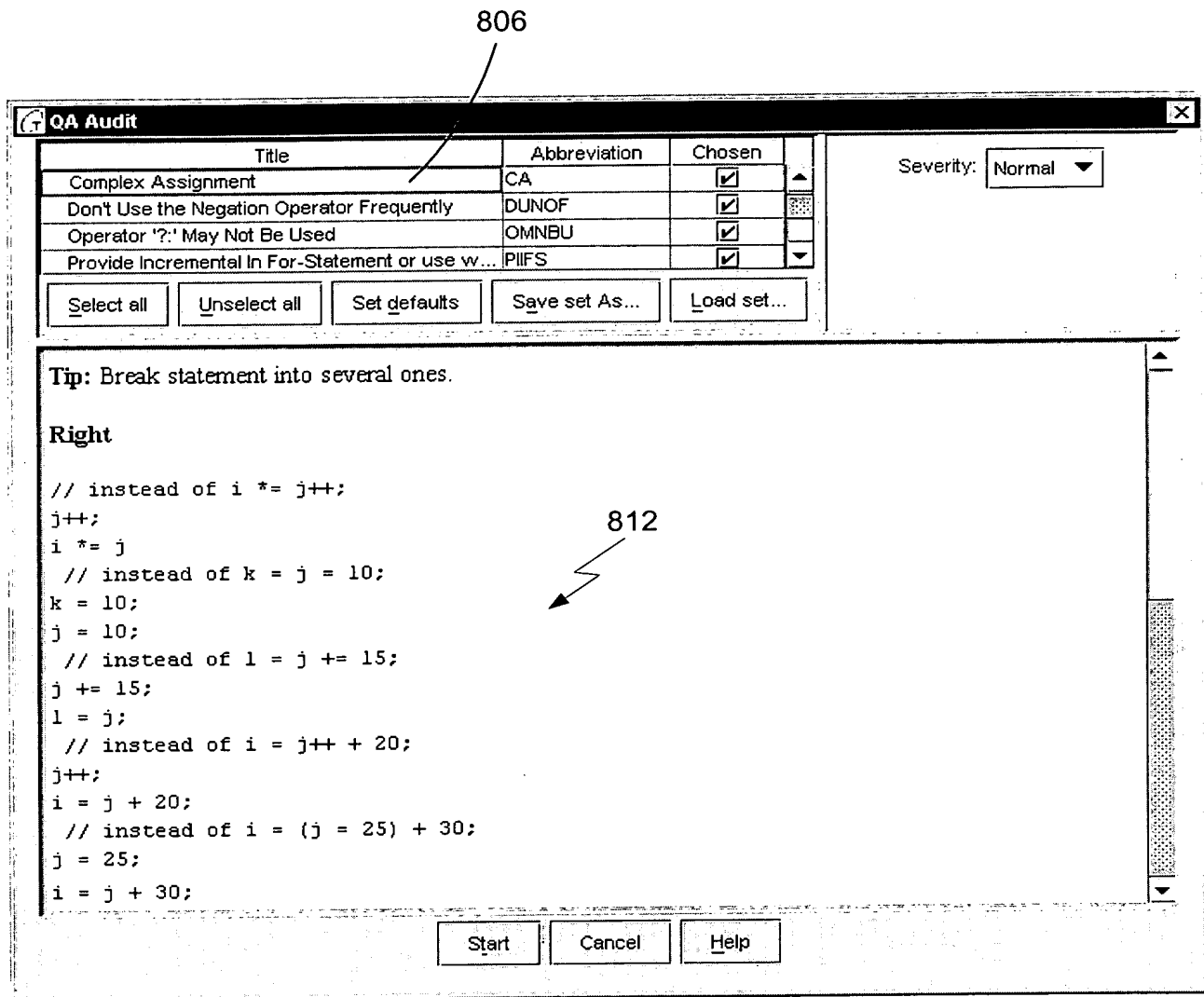
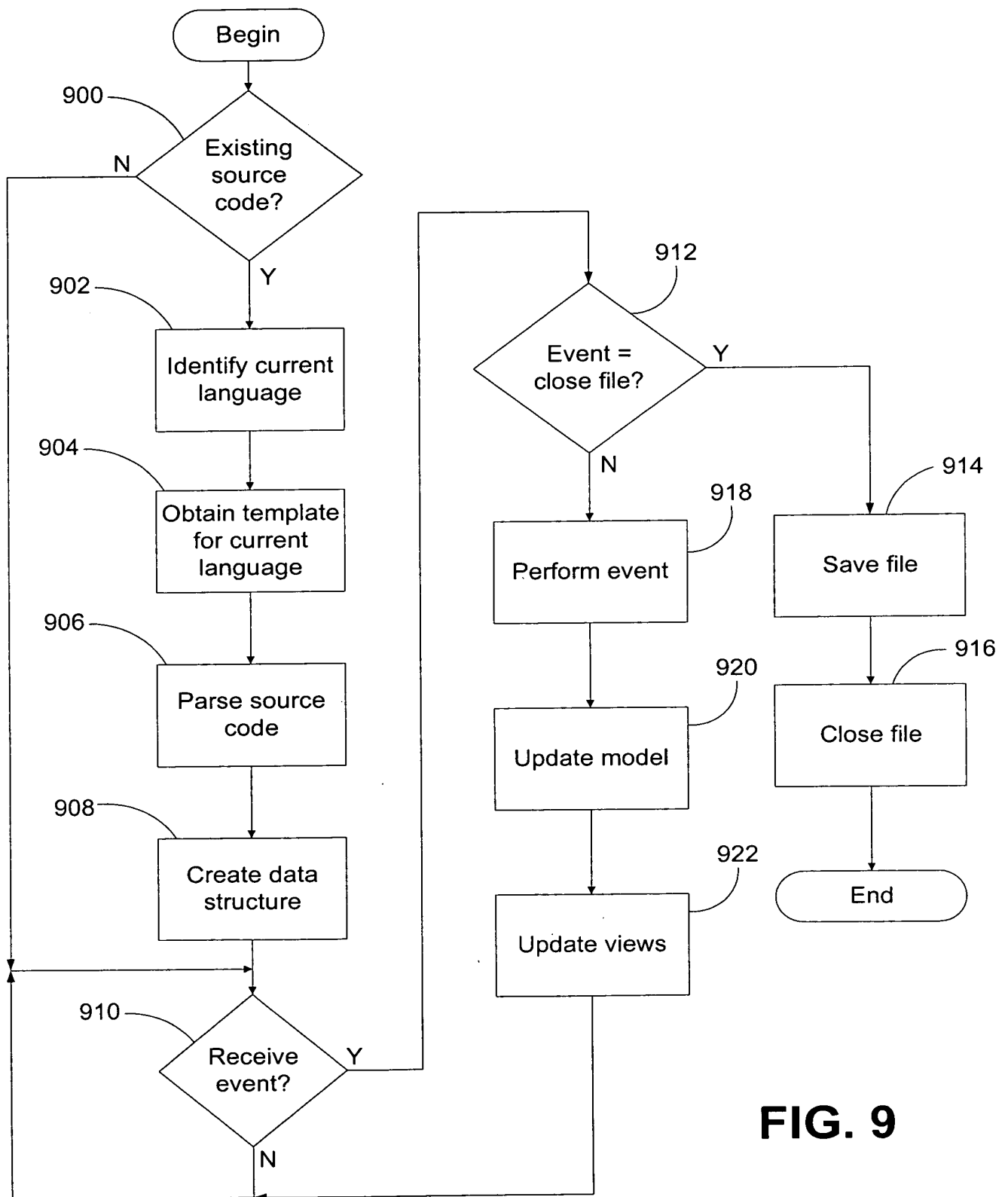
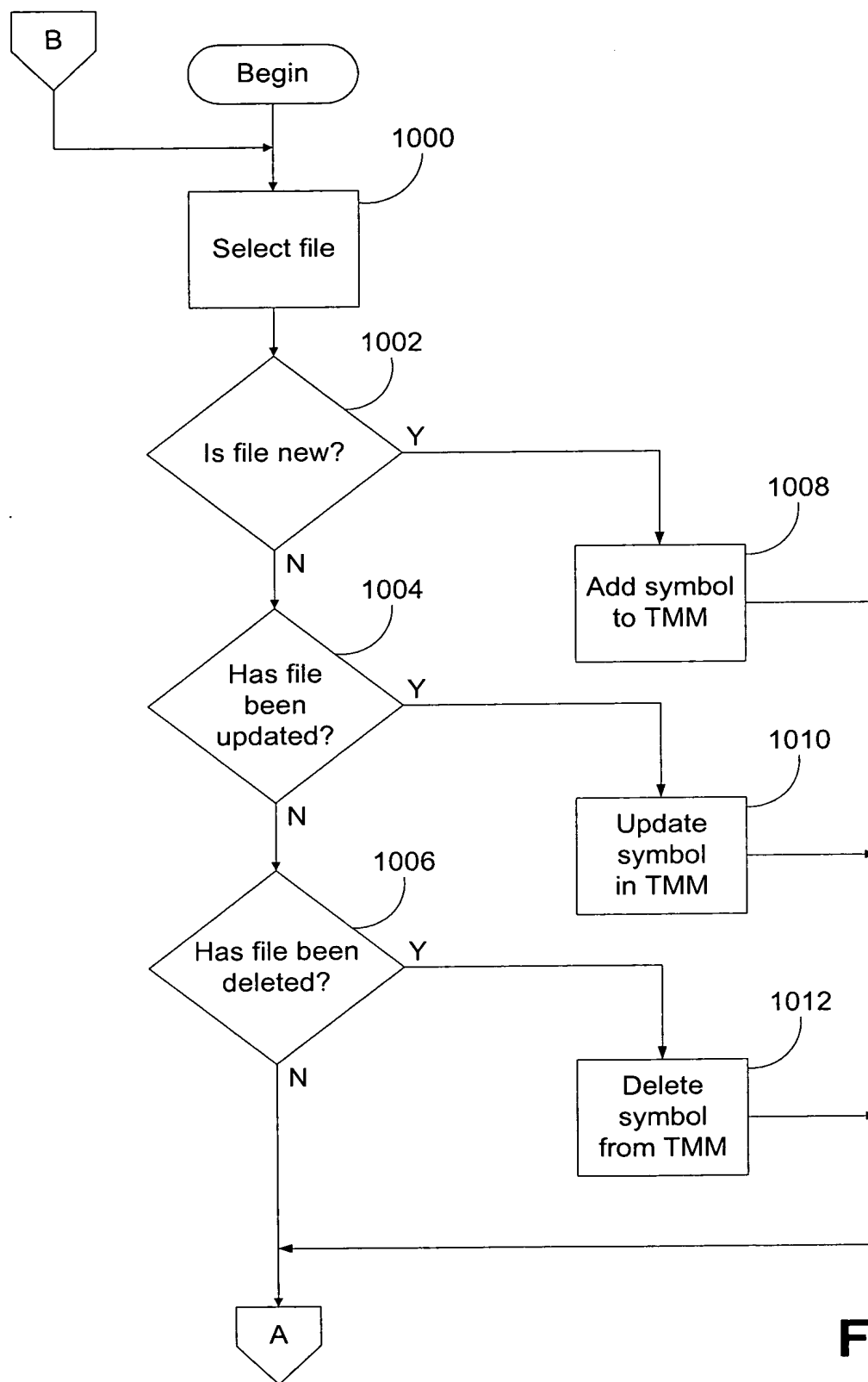


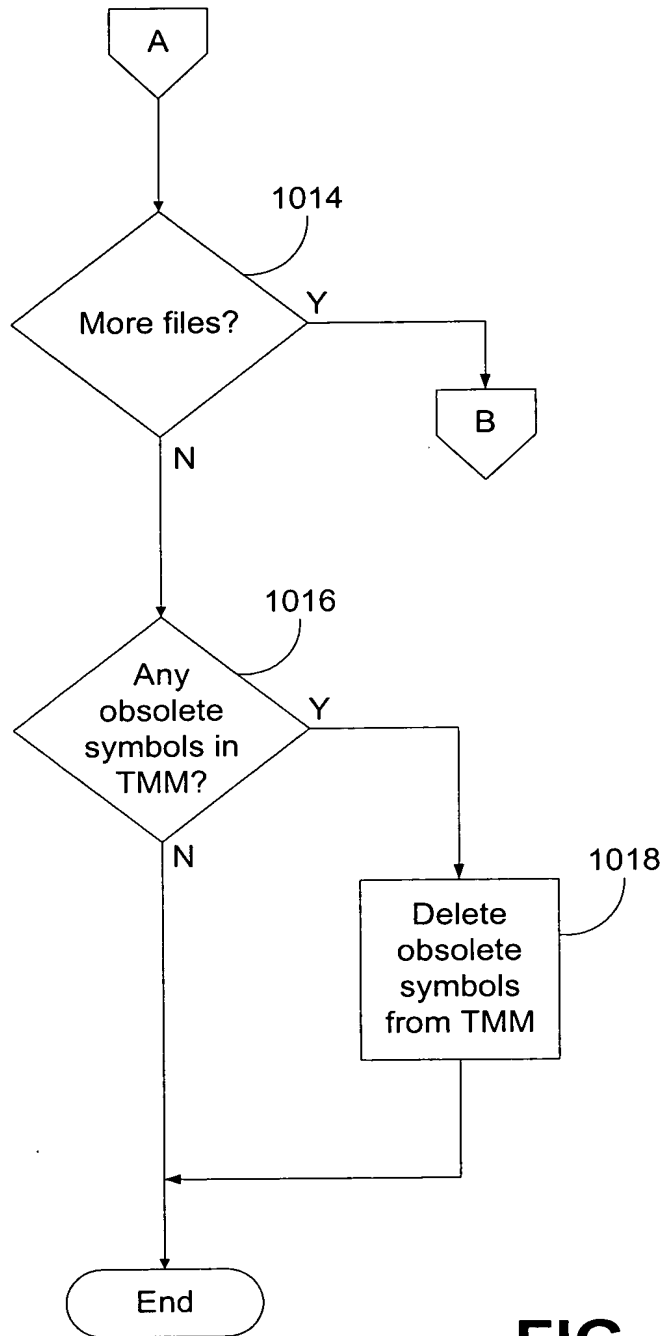
FIG. 8C



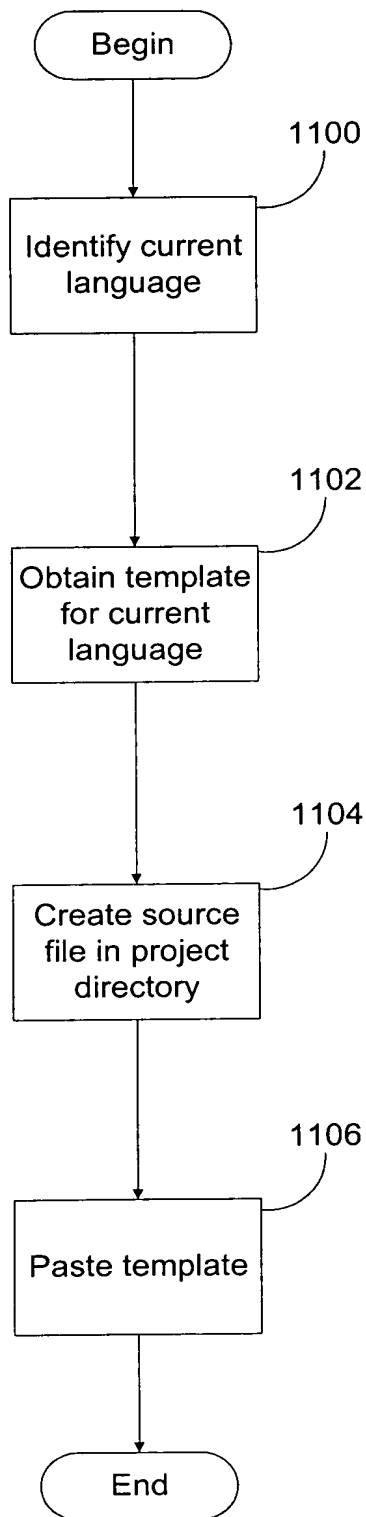


[illegible]

**FIG. 10A**



**FIG. 10B**



**FIG. 11**

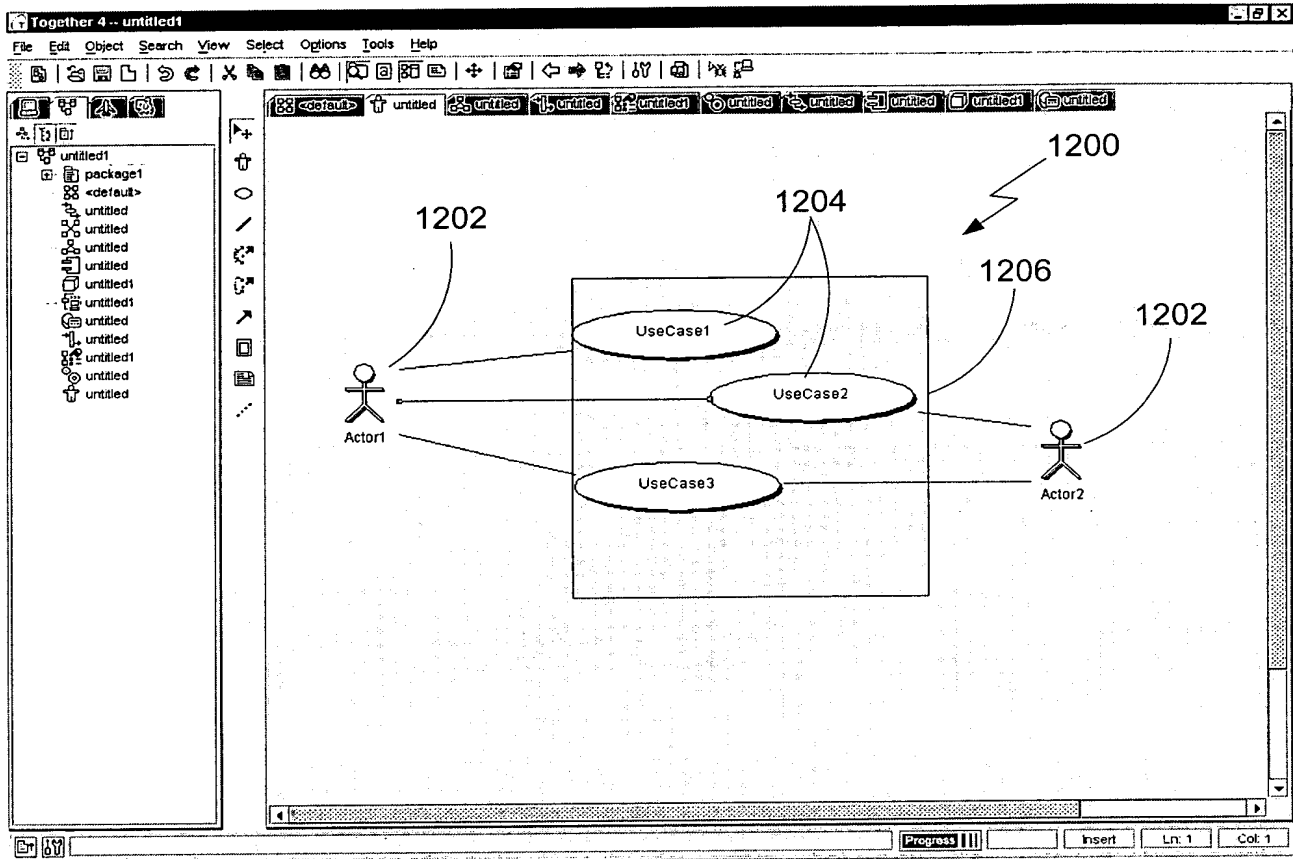


FIG. 12

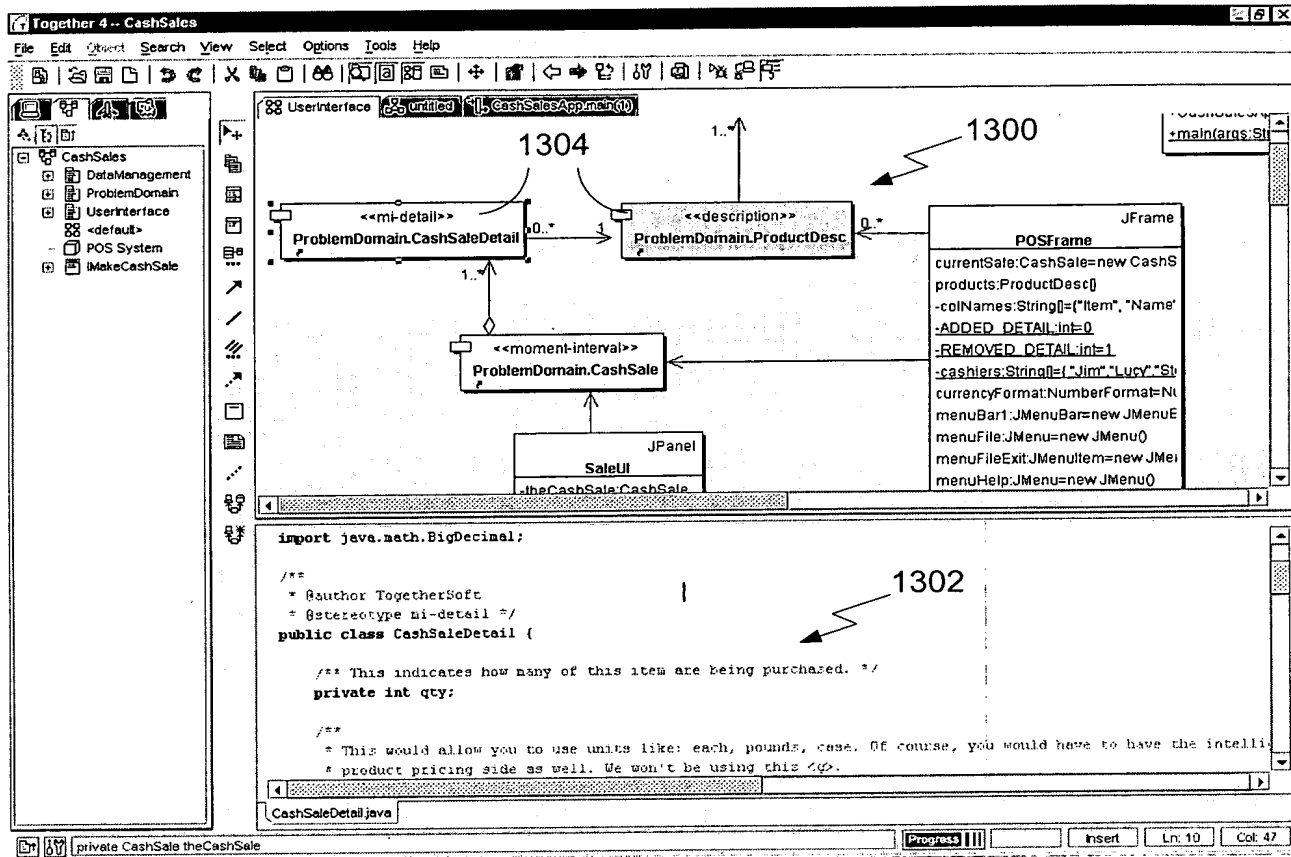


FIG. 13

1.00210-1196650

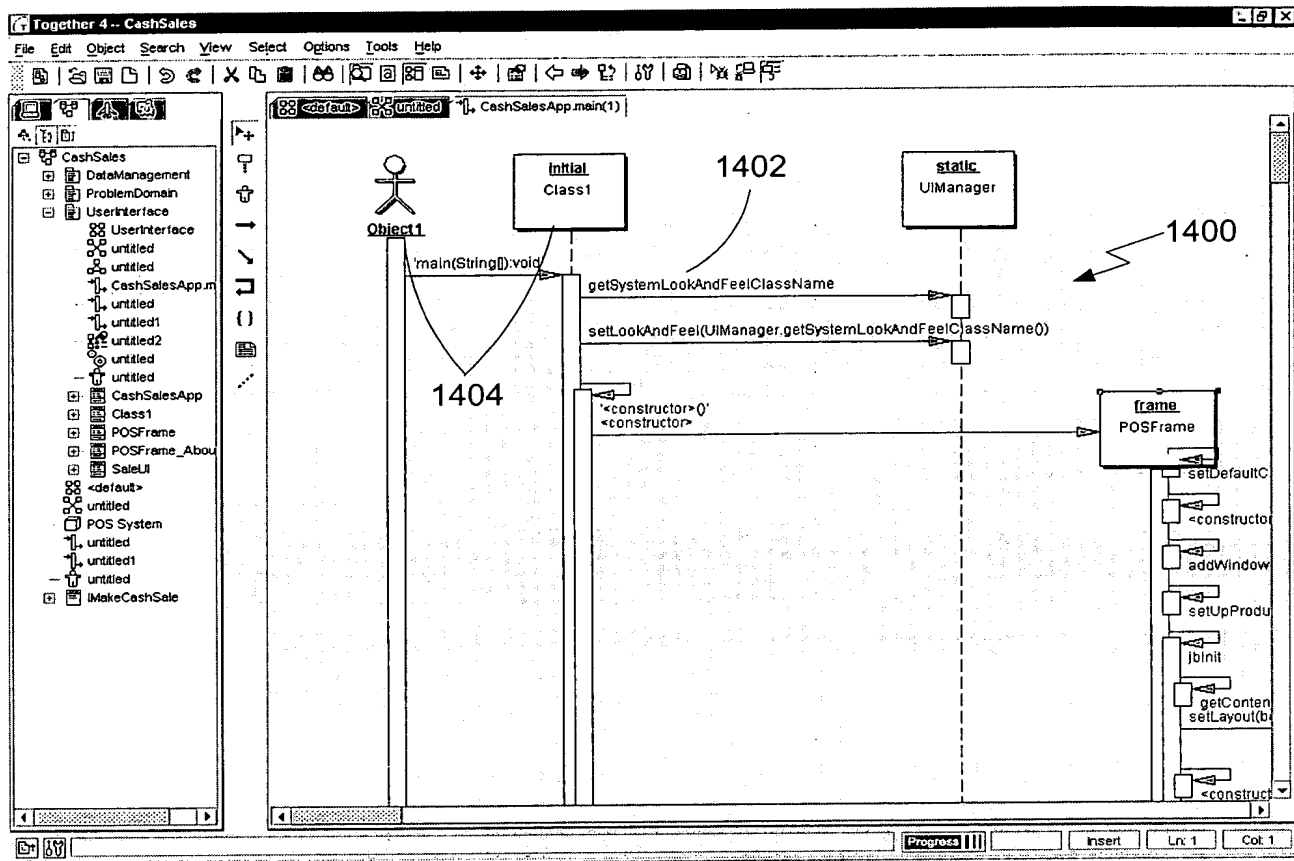


FIG. 14

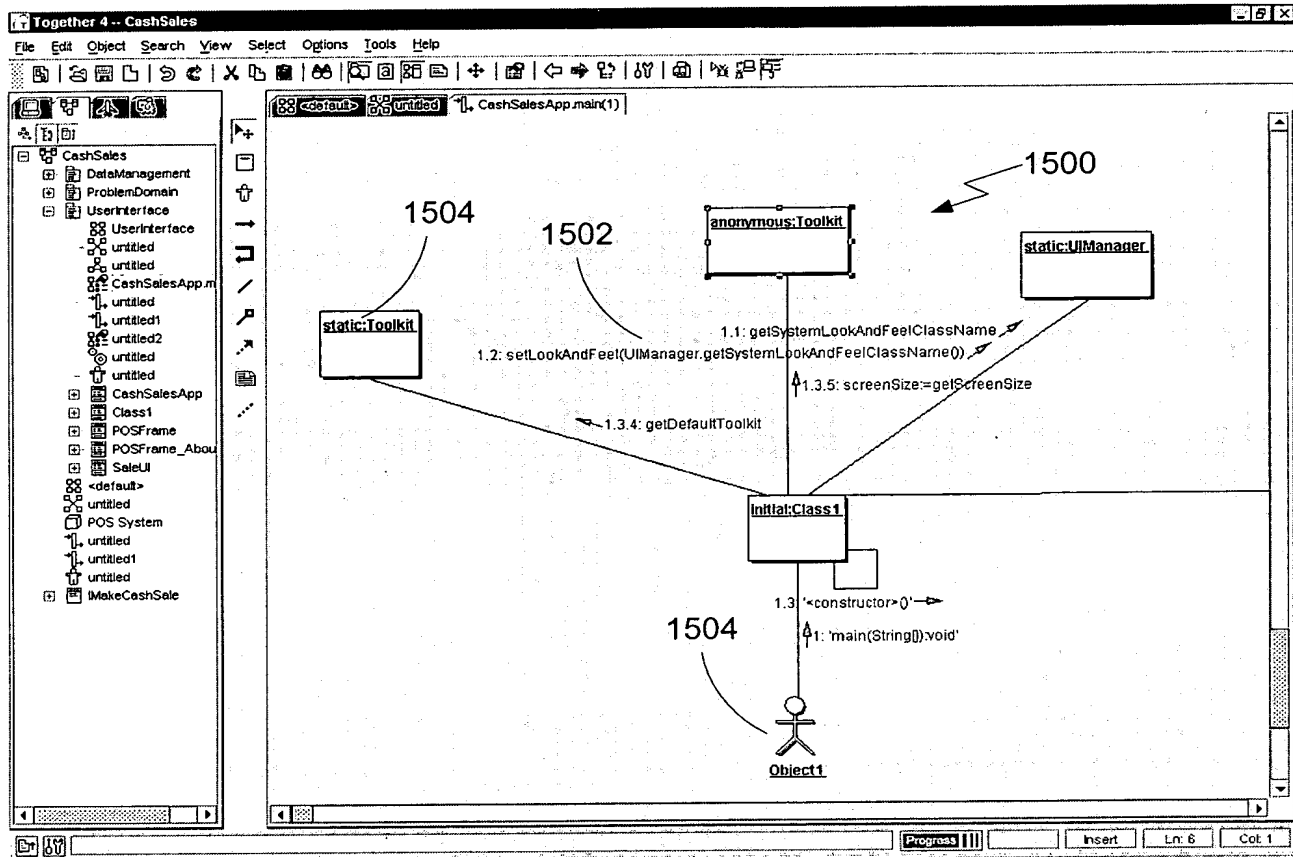


FIG. 15



FIG. 16

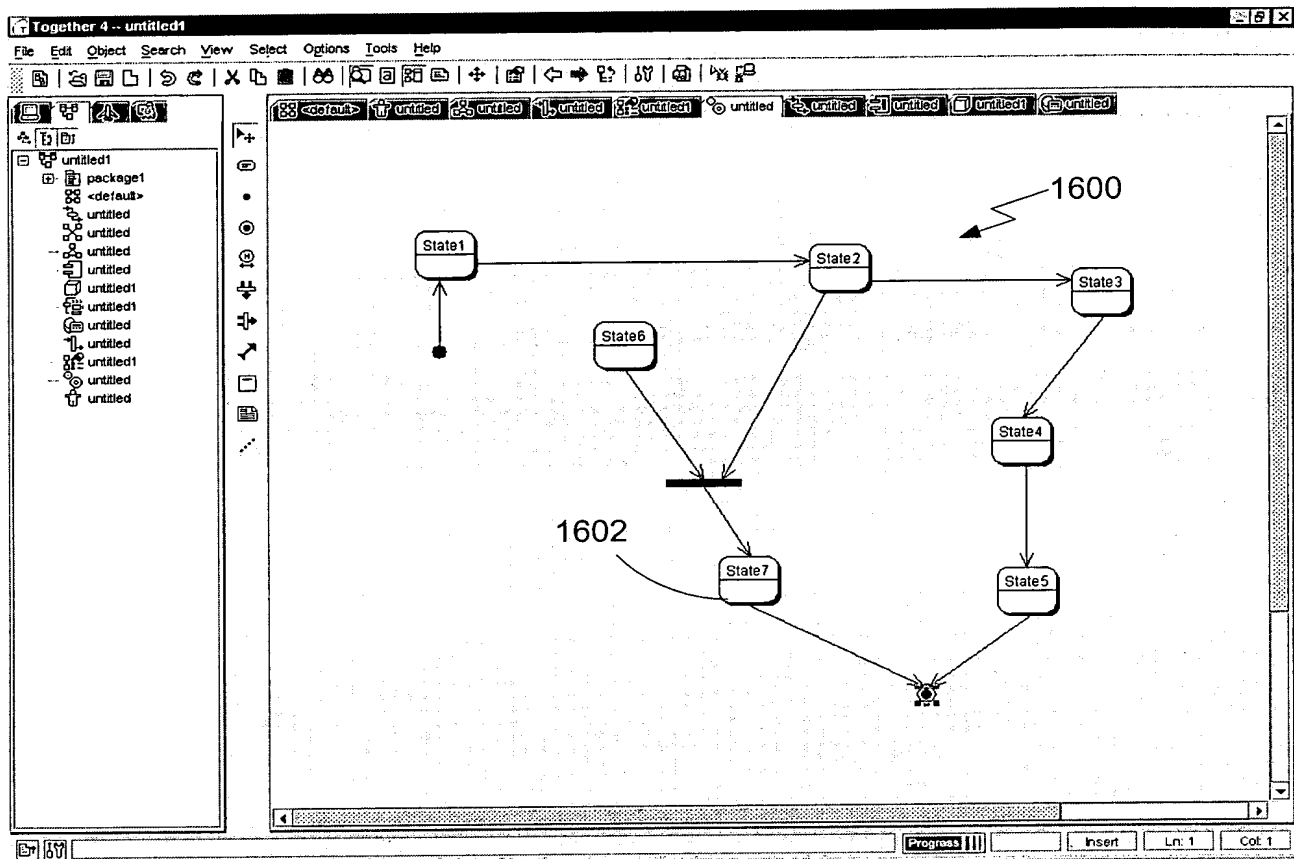


FIG. 16

FIG. 17

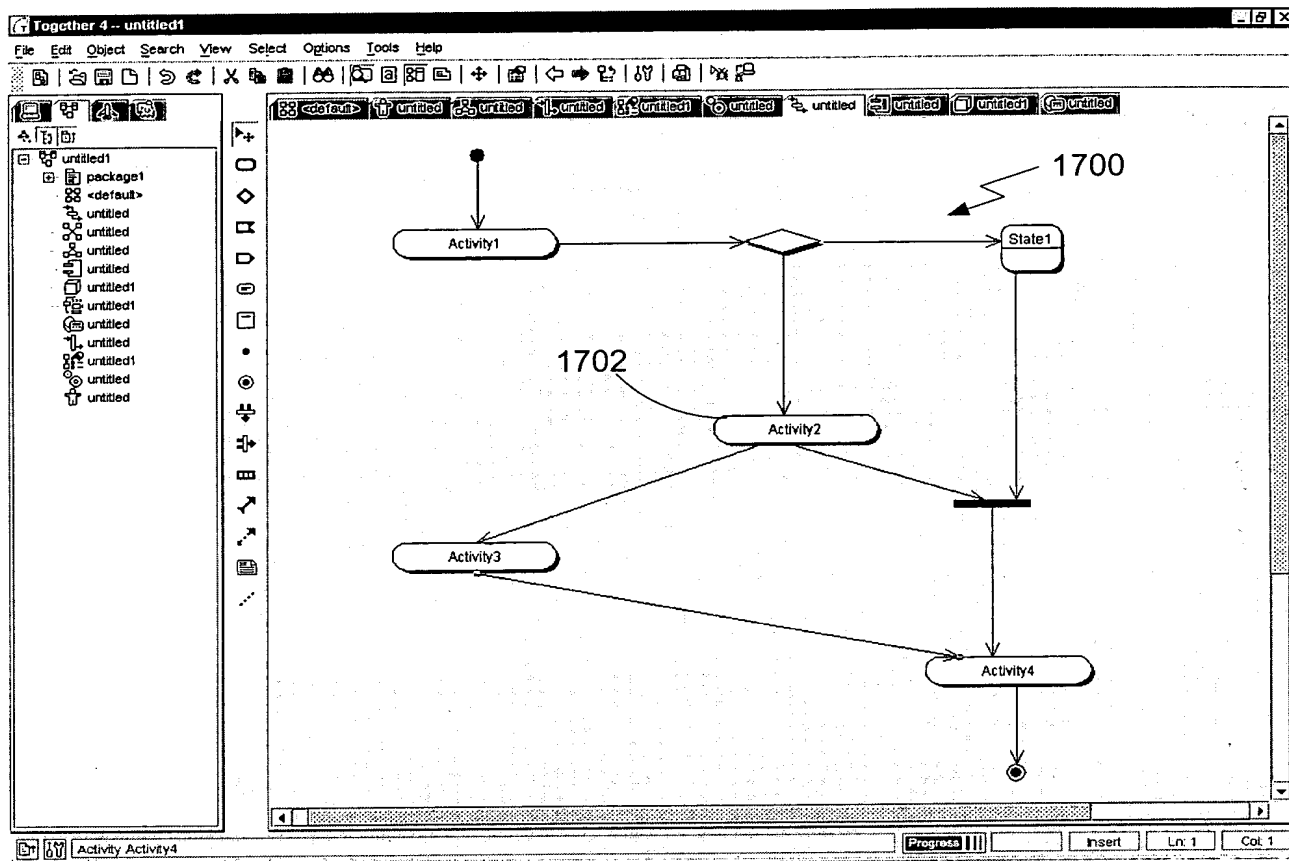


FIG. 17

FIG. 18

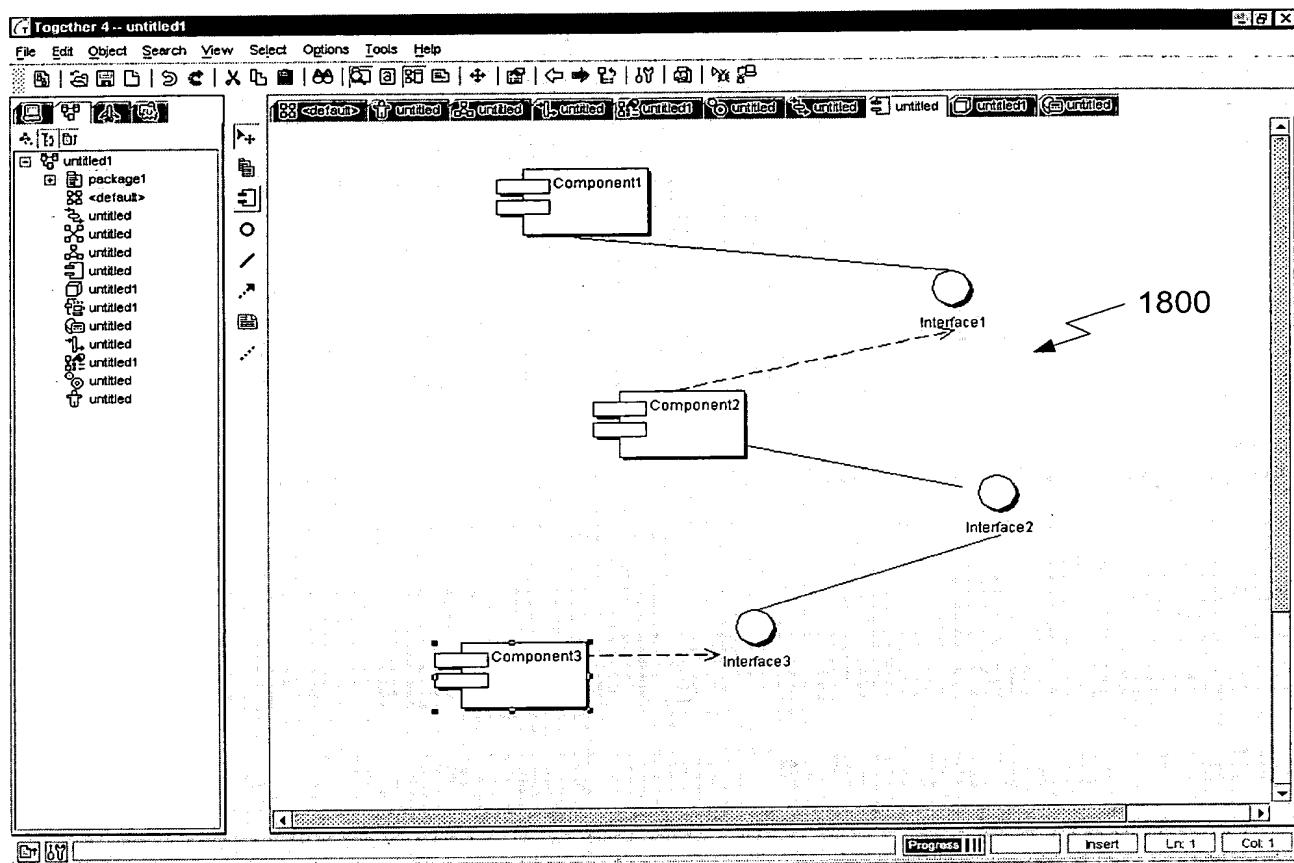


FIG. 18

FIG. 19

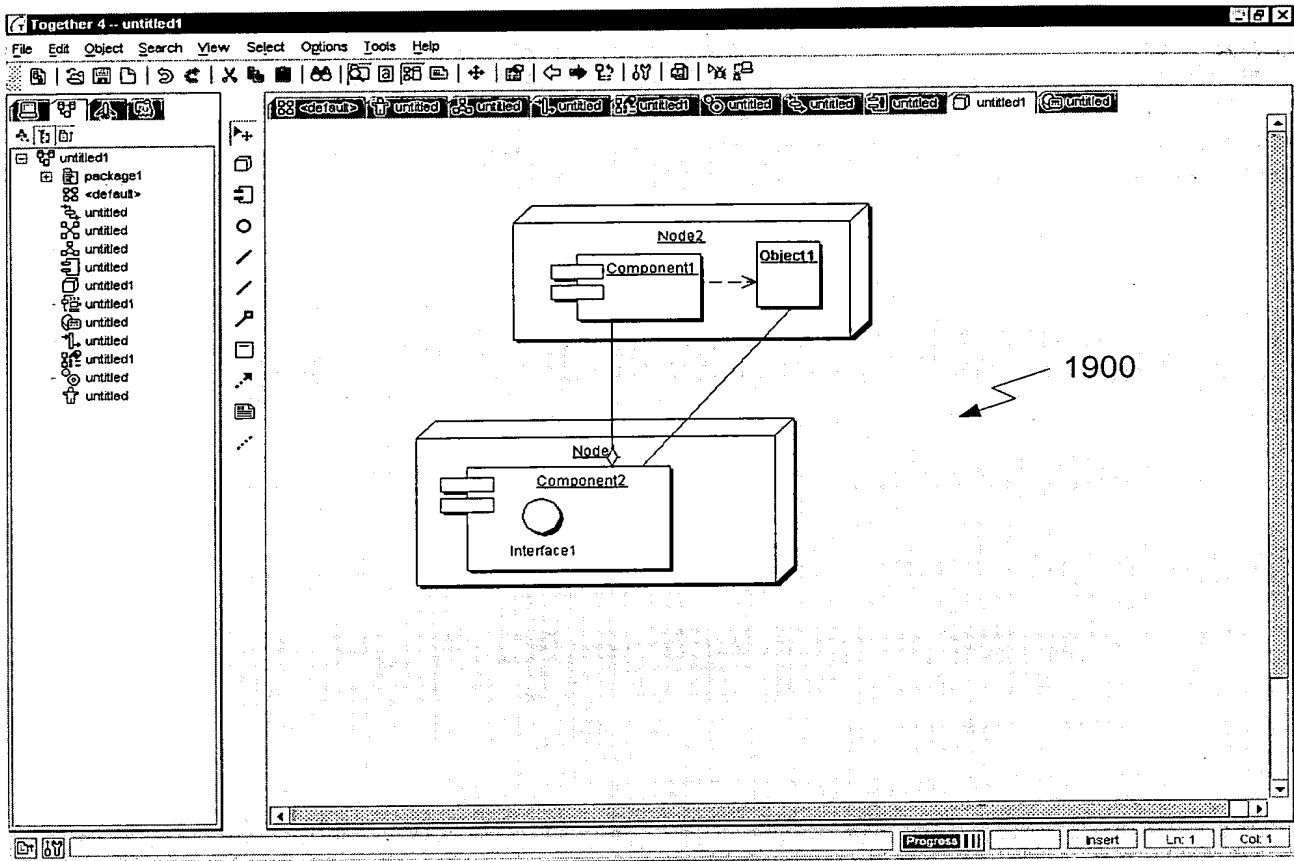


FIG. 19

**FIG. 20**

```
public class Sale
{
    /**
     * @link aggregation
     * @associates <{SaleDetail}>
     */
    private Vector InkSaleDetail;

    public void addItem( Product aProd)
    {
        public SaleDetail( String barCode)
        {
            Product item = Product.lookUp( barCode );
        }
    }
}
```

2002

2008 2004 2006

2010 2012

# FIG. 21

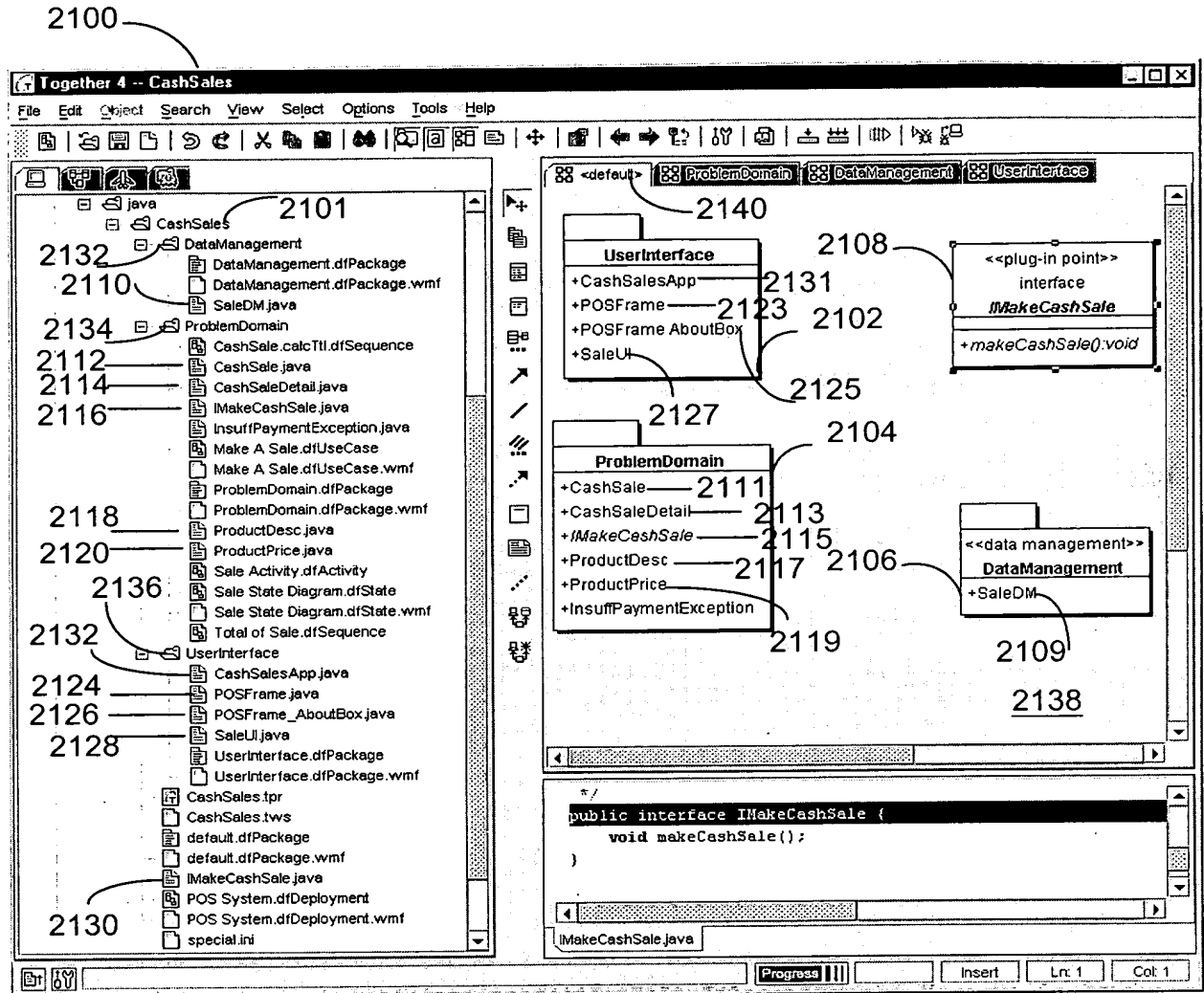


FIG. 22A

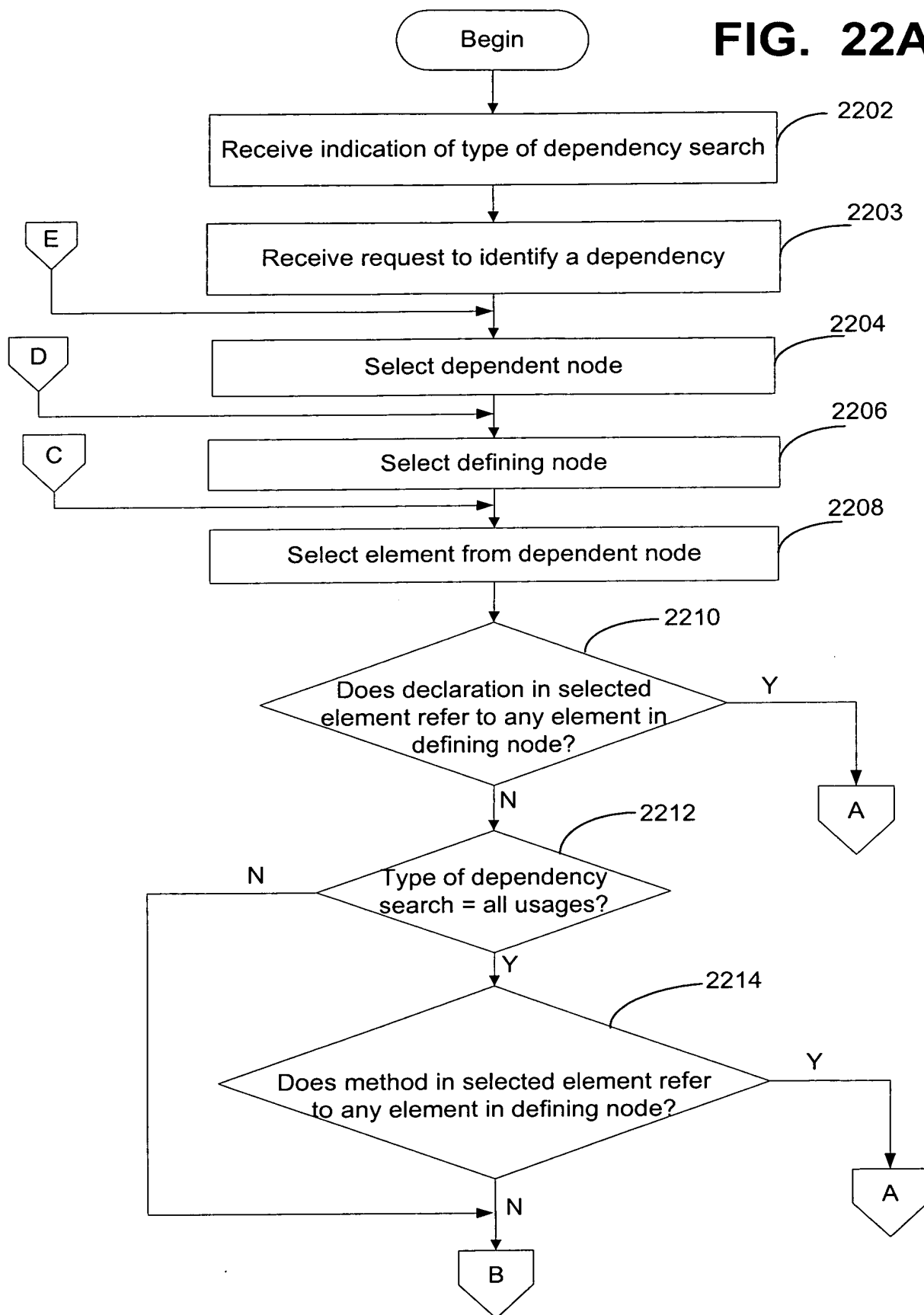
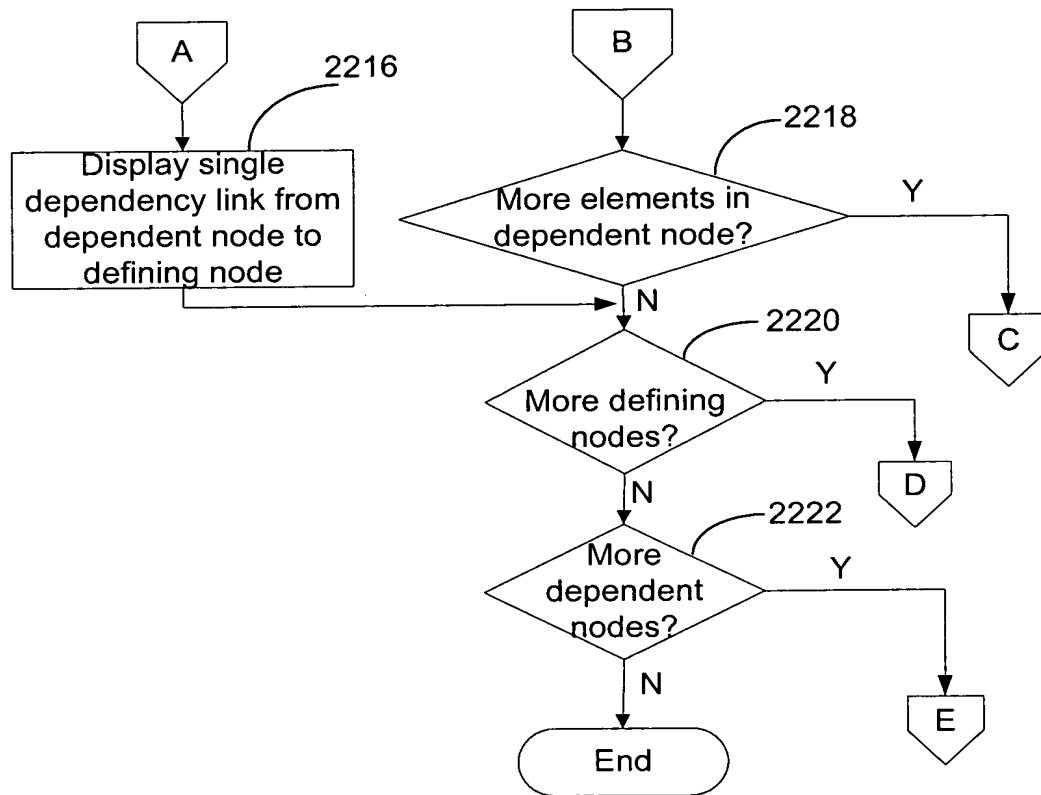
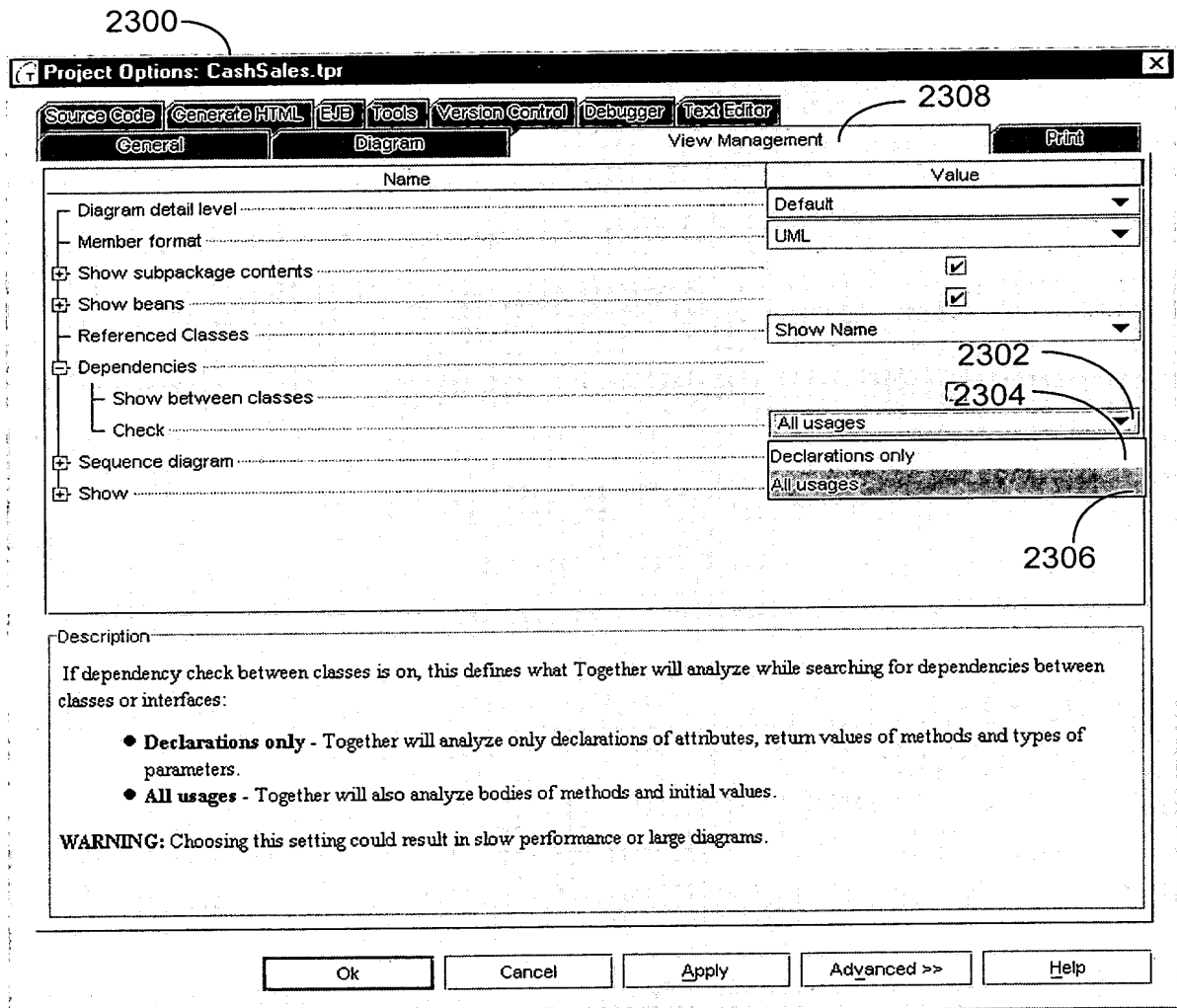


FIG. 22B



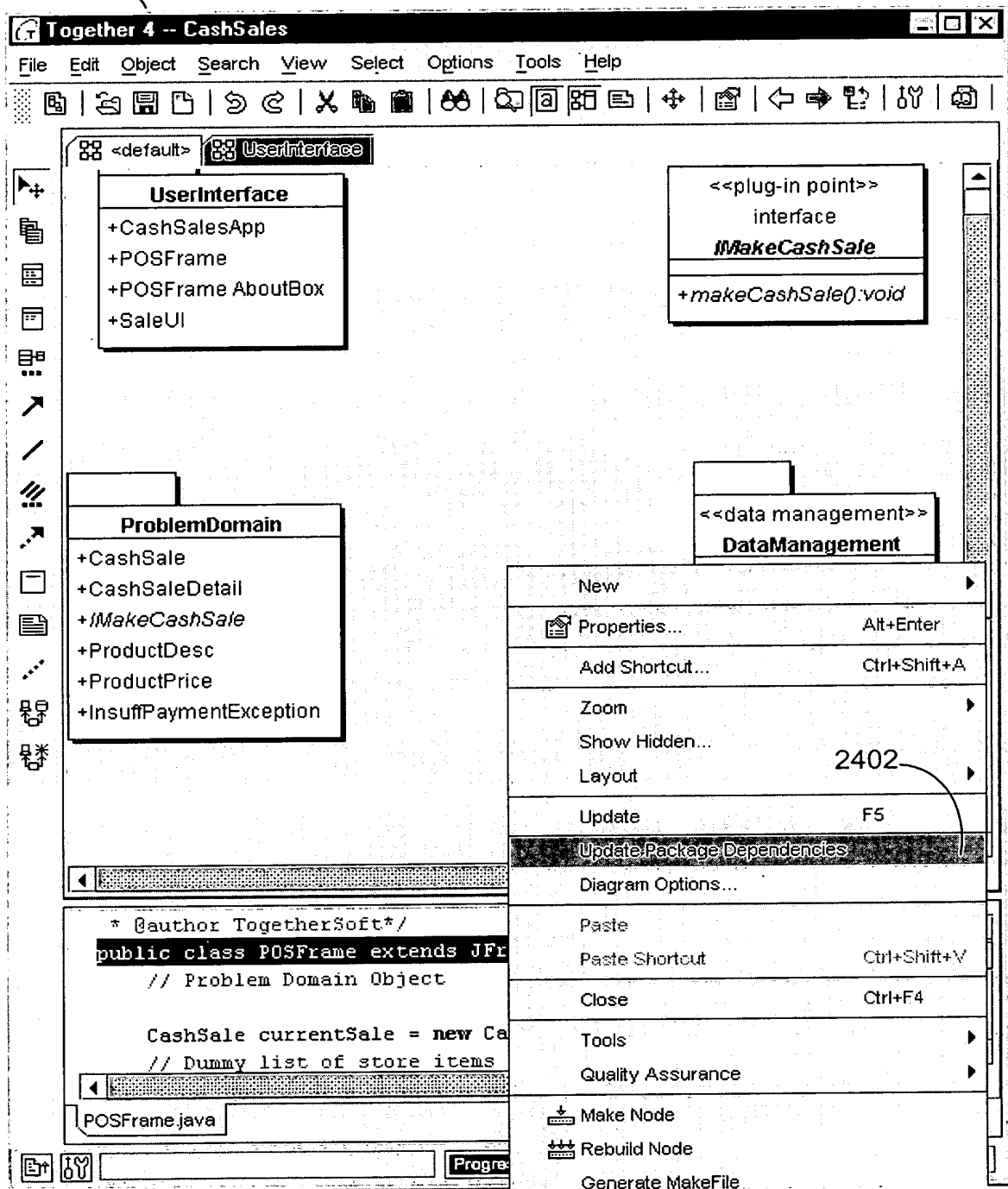


# FIG. 23

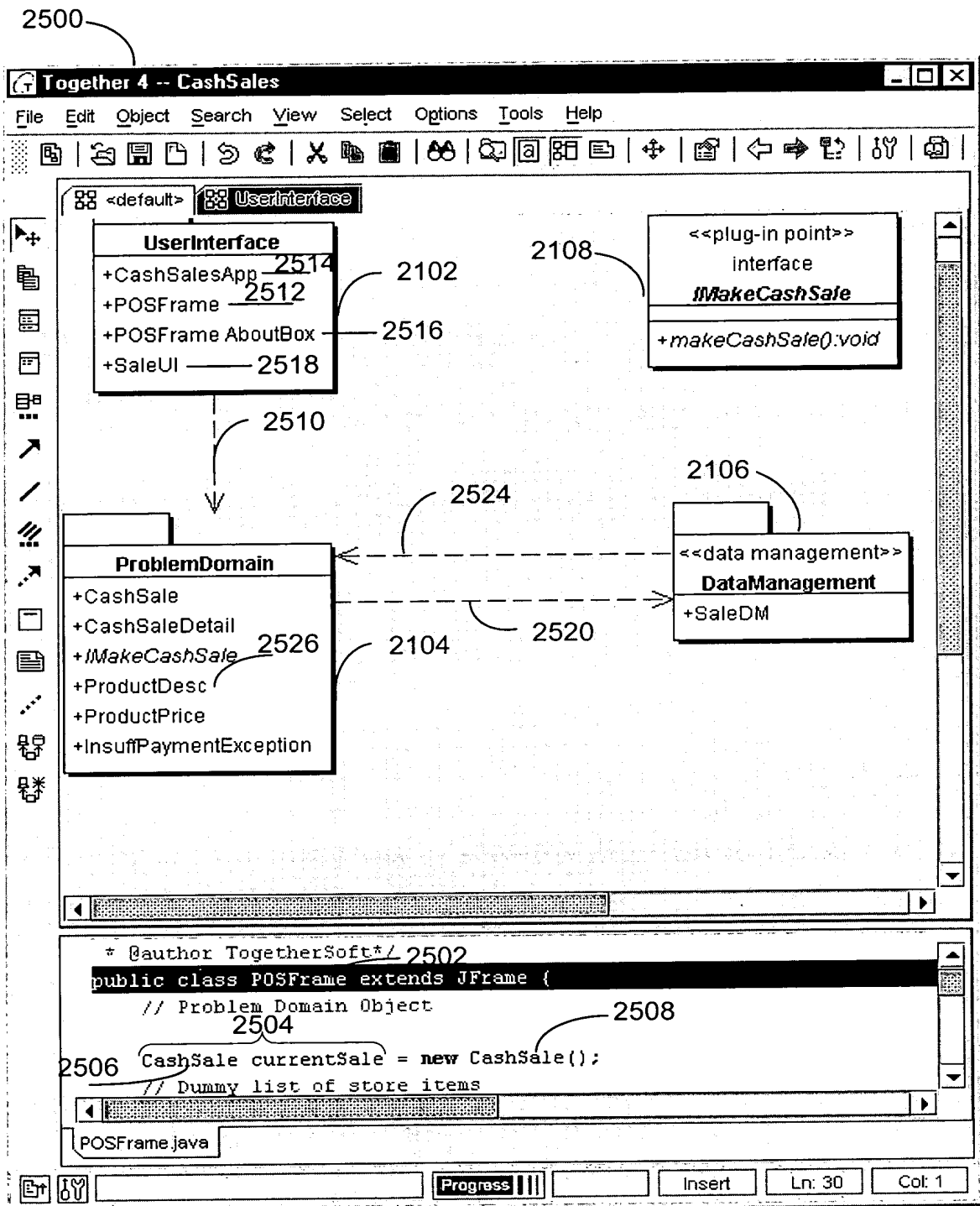


# FIG. 24

2400



# FIG. 25



# FIG. 26

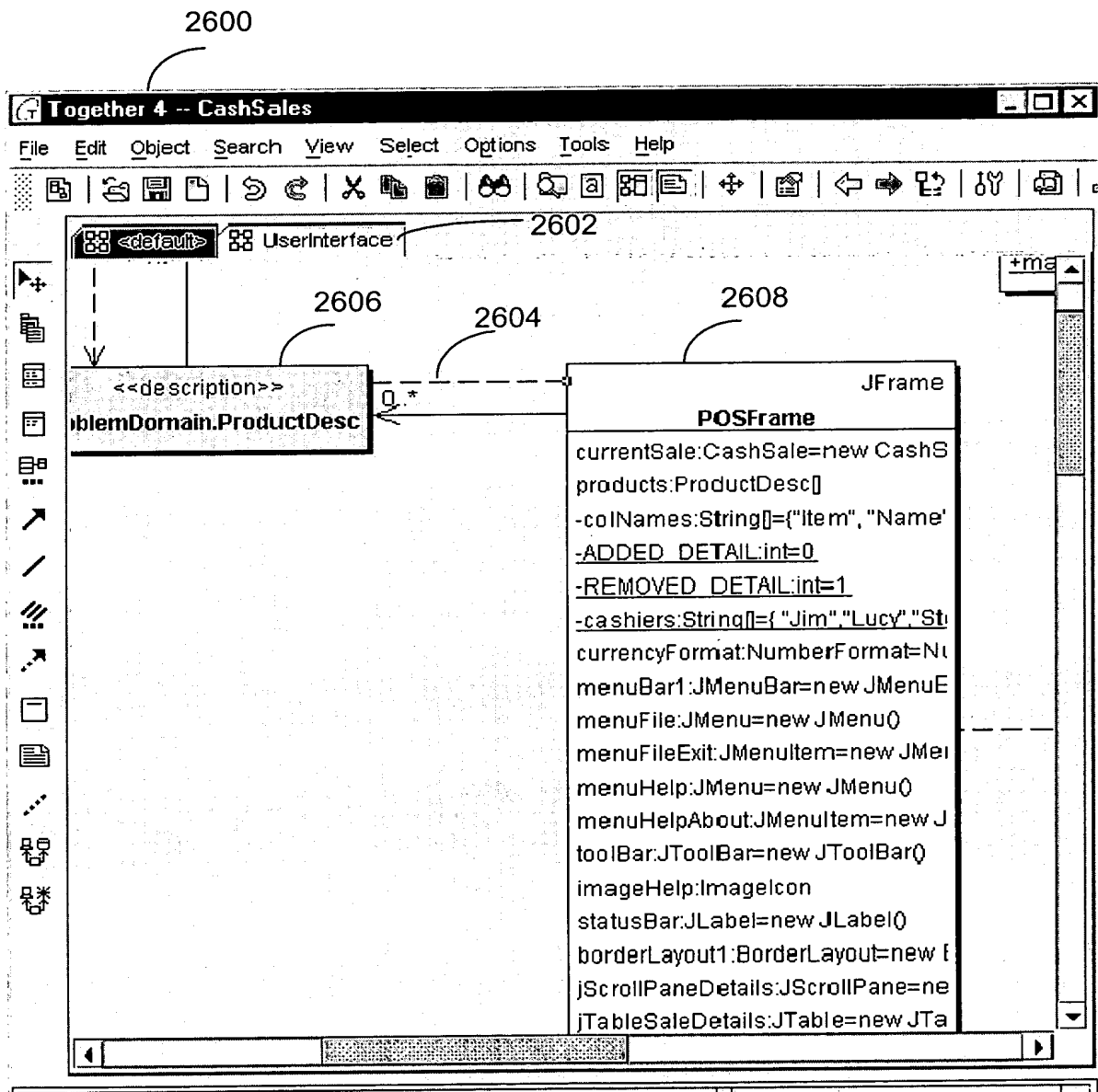


FIG. 27A

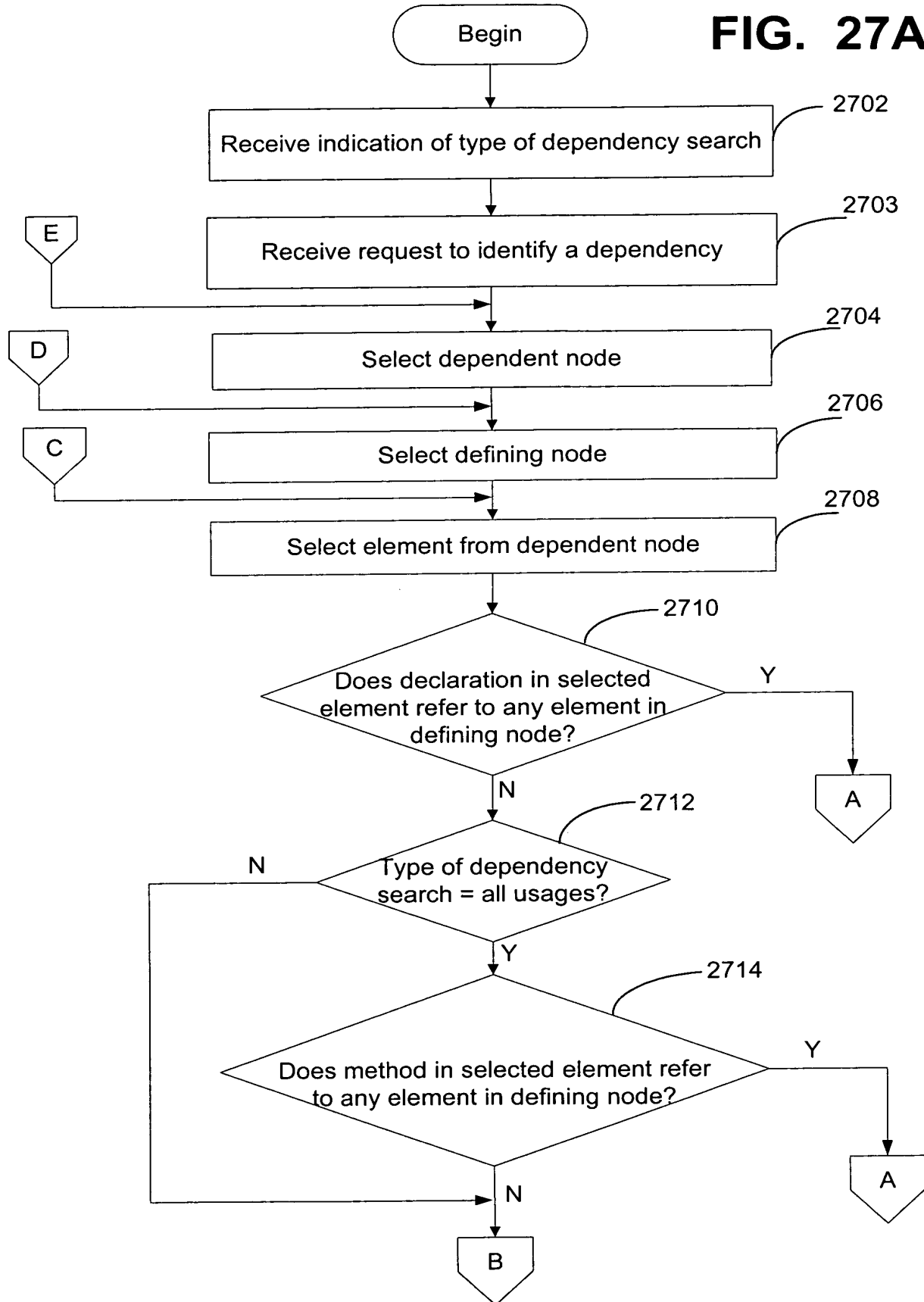


FIG. 27B

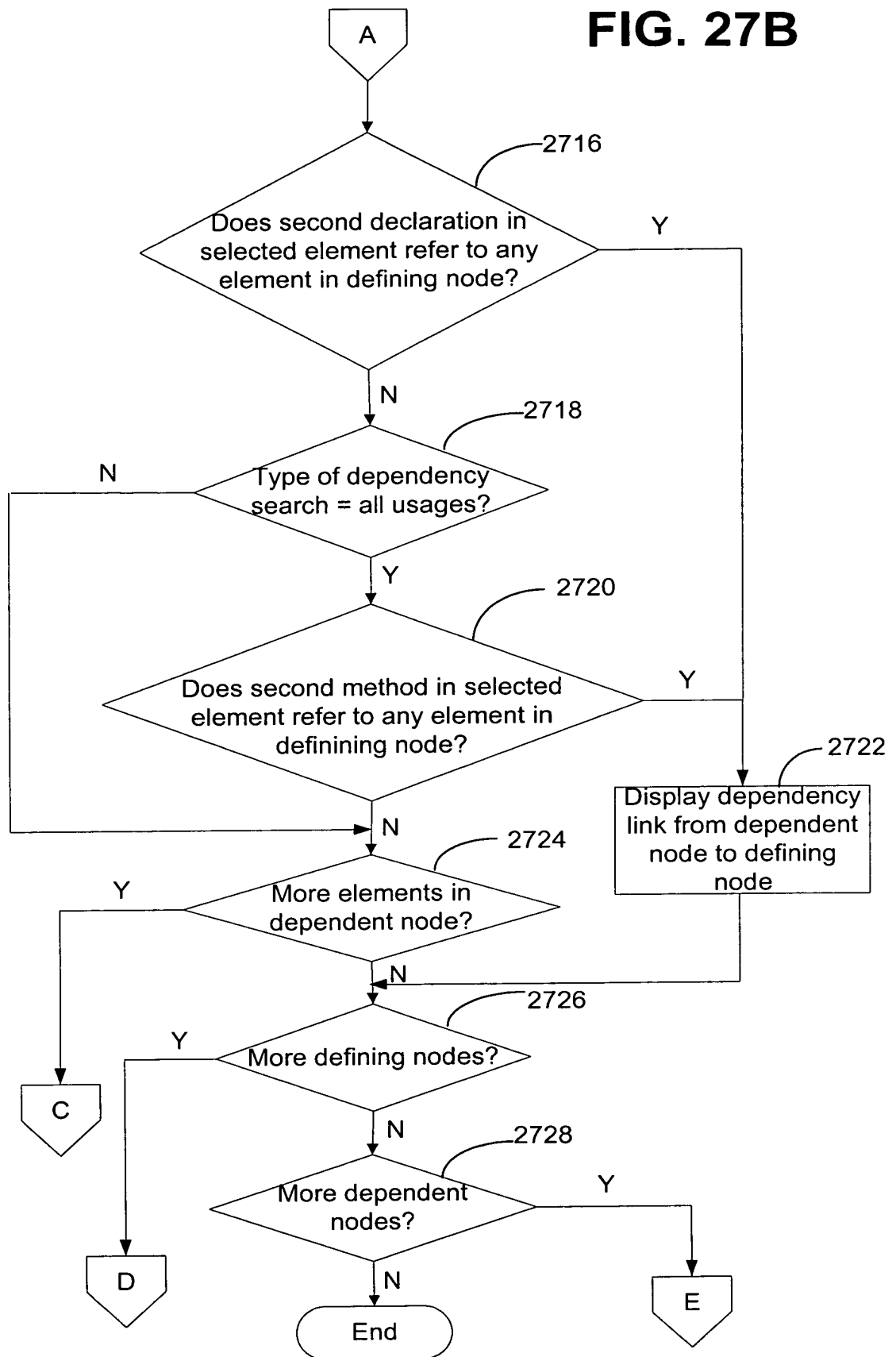


FIG. 28A

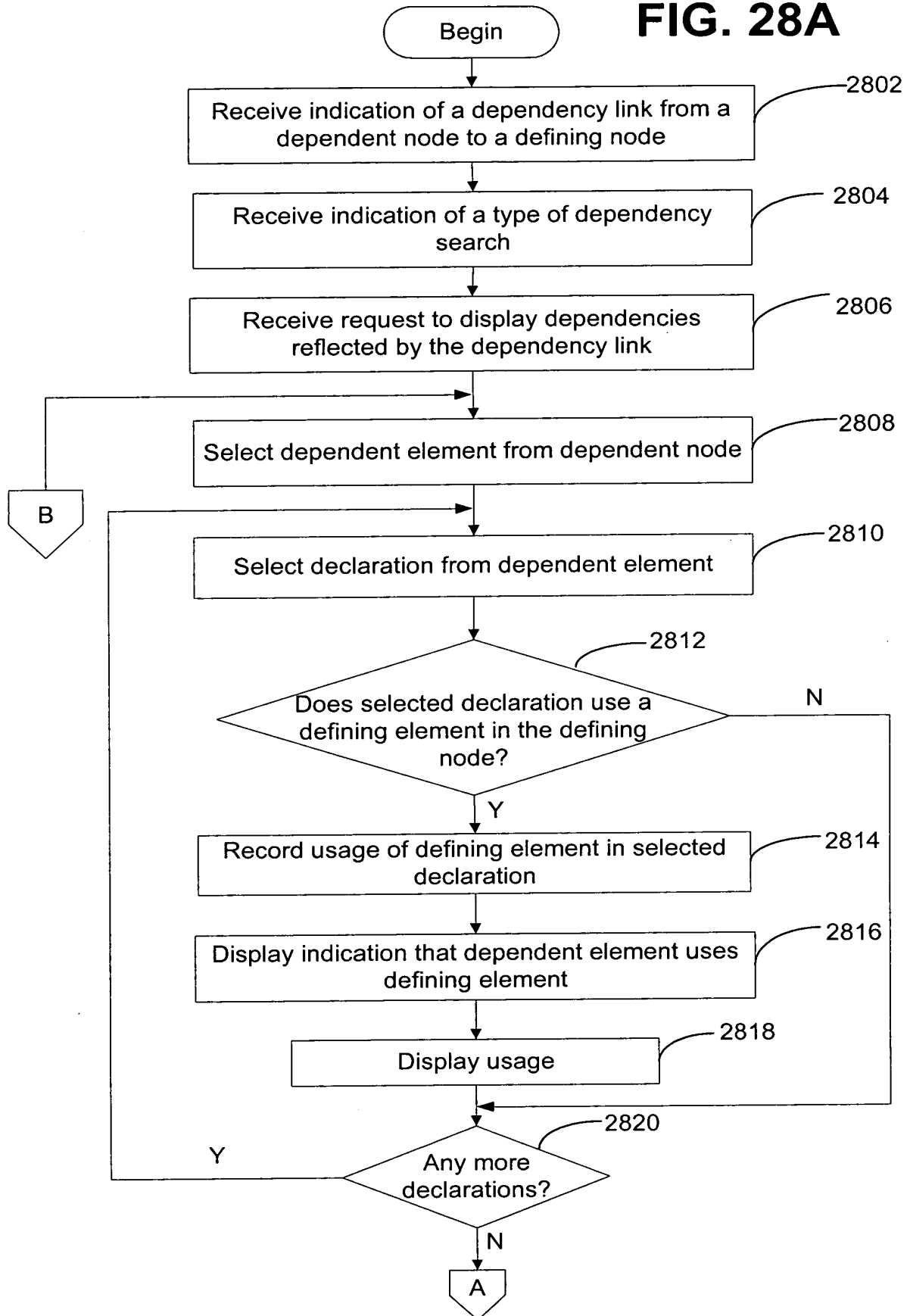


FIG. 28B

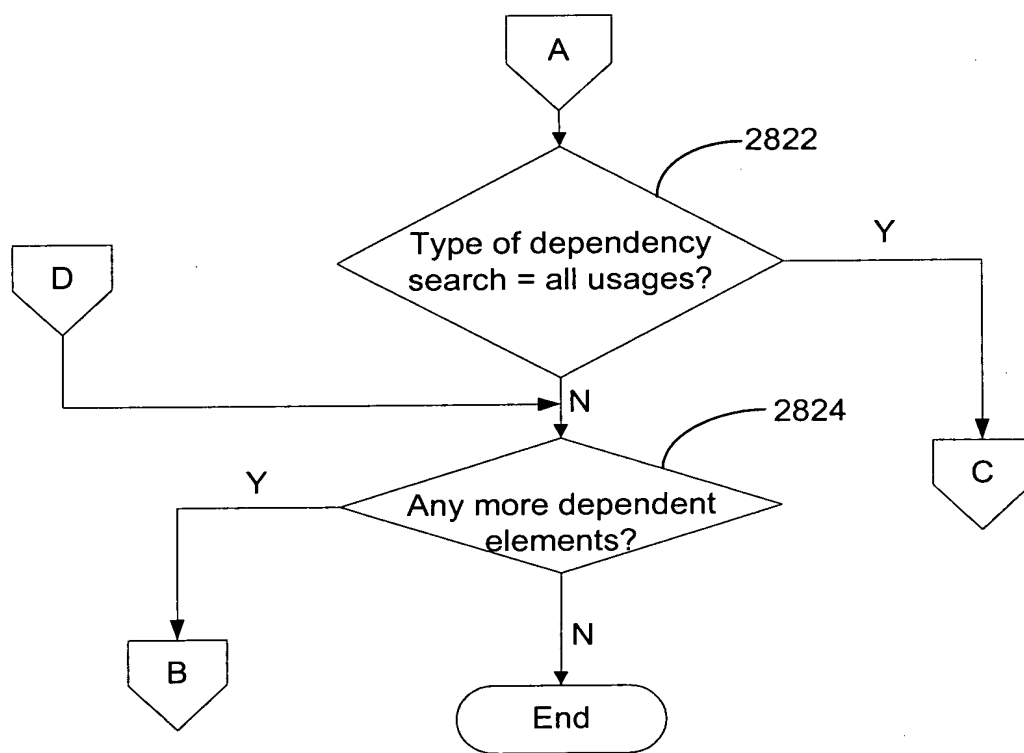
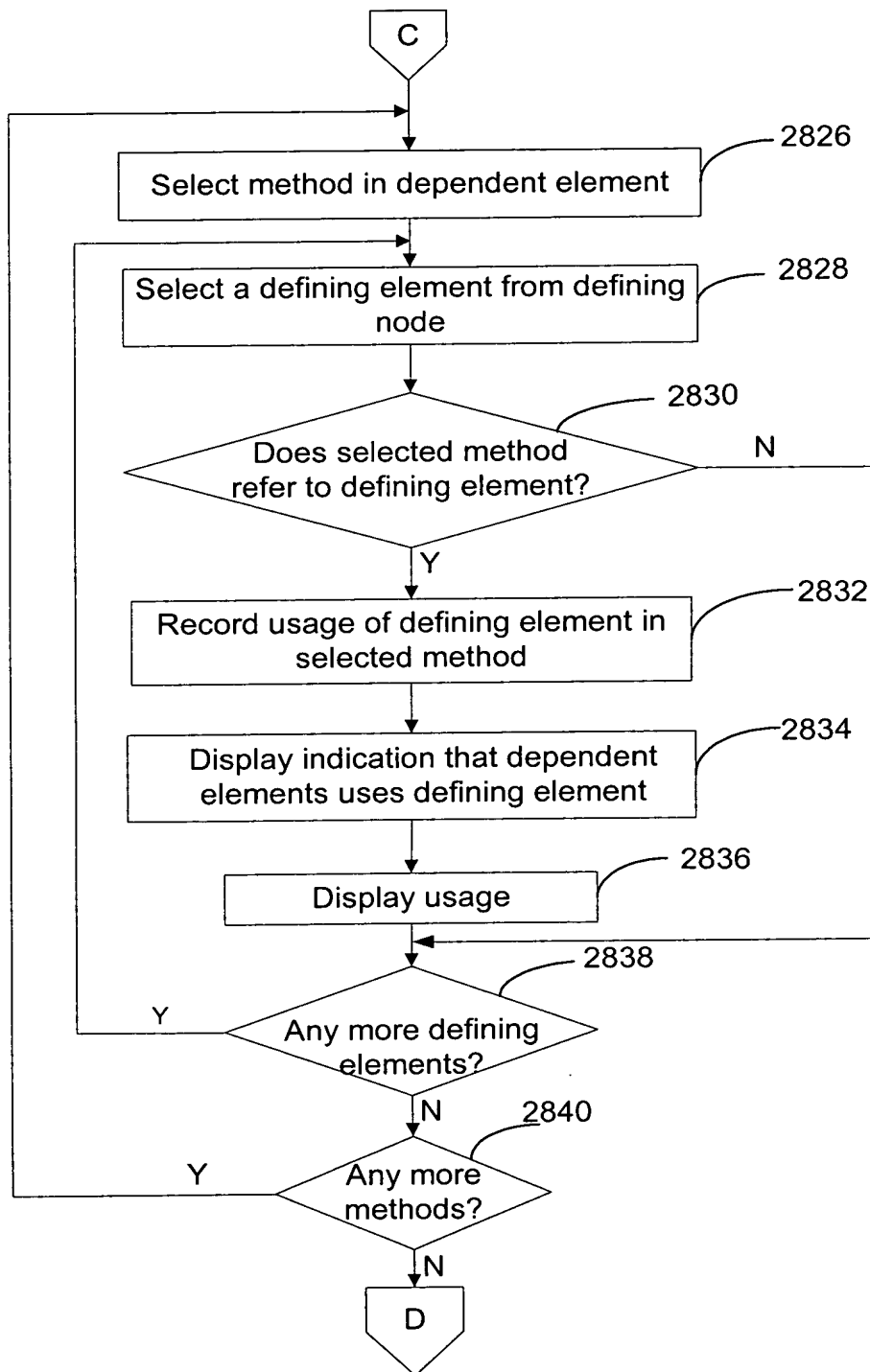
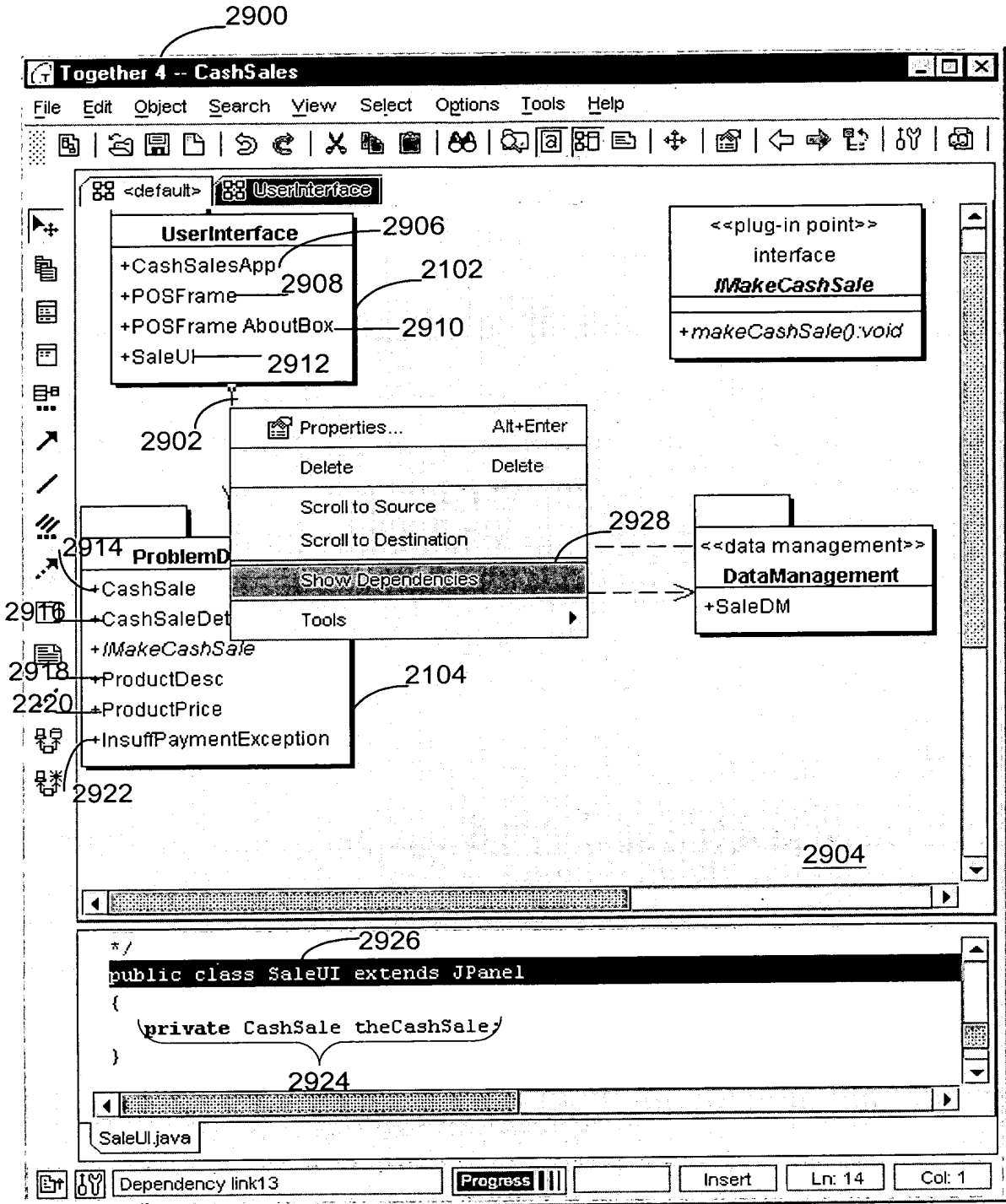




FIG. 28C



# FIG. 29



# FIG. 30

3002  
public class POSFrame extends JFrame {  
    // Problem Domain Object  
  
    CashSale currentSale = new CashSale();  
    // Dummy list of store items  
    ProductDesc[] products; 3004  
    // Sale Detail Table Column Header  
3006  
    private final String[] colNames = {"Item", "Name", "Unit", "Qty", "Price"};  
    private final static int ADDED\_DETAIL = 0;  
    private final static int REMOVED\_DETAIL = 1;  
    // Dummy list of cashiers  
  
    private final static String[] cashiers =  
        {  
"Jim", "Lucy", "Steve", "Sarah", "Jon", "Buddy", "Bettie", "Sue", "John", "Ted"};  
        NumberFormat currencyFormat = NumberFormat.getCurrencyInstance();

3010  
3014  
3016  
3008  
3012  
private void setUpProducts() {  
    products = new ProductDesc[10];  
    products[0] = new ProductDesc("1", "Pepsi 24-pack", "Pepsi 24", new BigDecimal(3.99));  
    products[1] = new ProductDesc("2", "Lays Ridges", "Lays", new BigDecimal(1.99));  
    products[2] = new ProductDesc("3", "Vienna Sausages", "Vienna Sausages",  
        new BigDecimal(2.99));  
    products[3] = new ProductDesc("4", "White Popcorn", "White Popcorn",  
        new BigDecimal(1.30));  
    products[4] = new ProductDesc("5", "Soy Burgers", "Soy Burger", new BigDecimal(5.99));  
    products[5] = new ProductDesc("6", "Cat Chow", "Cat Chow", new BigDecimal(9.99));  
    products[6] = new ProductDesc("7", "Puppy Chow", "Puppy Chow", new BigDecimal(12.99));  
    products[7] = new ProductDesc("8", "Finch Food", "Finch Food", new BigDecimal(1.59));  
    products[8] = new ProductDesc("9", "Rice Krispies", "Rice Krispies", new BigDecimal(3.30));  
    products[9] = new ProductDesc("10", "Fruit Loops", "Fruit Loops", new BigDecimal(3.49));  
}

3102

**FIG. 31**

```
public class ProductDesc {
```

```
    /** Use it if you need to identify Products as specific types. */
    private int type;
```

```
    /** Product name. For example: Goetze's Caramel Cremes */
    private String name;
```

```
    /** This is the unique identifying number. Something like a UPC for retail
    products. */
    private String itemNumber;
```

```
    /** Default price. */
    private BigDecimal defaultPrice;
```

```
    /** Some prose describing the product in all its glory. */
    private String description;
```

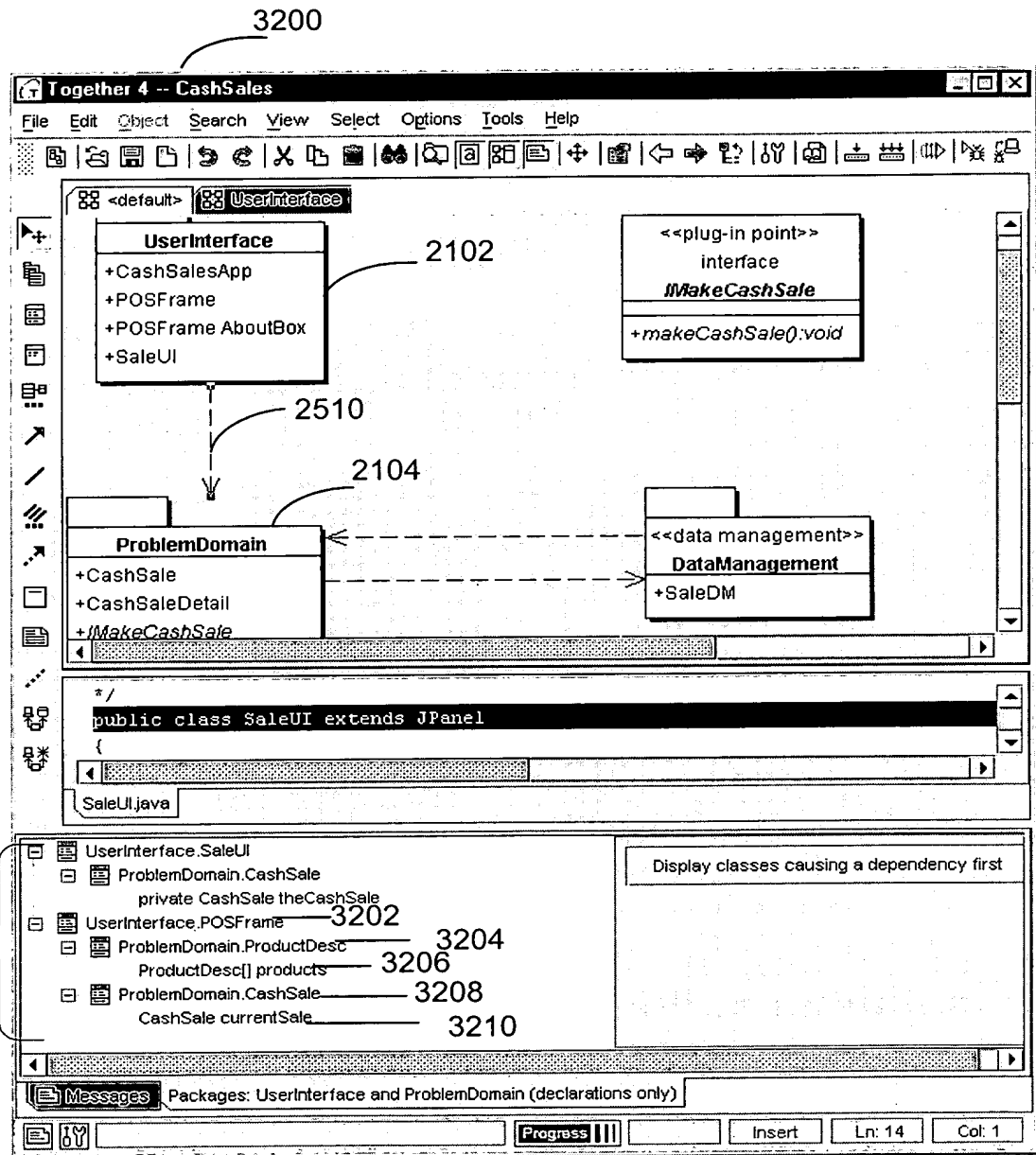
```
    /**
     *List of prices. If this list has elements, then they are checked. Otherwise,
     the default price is used. <p>
     * @supplierCardinality 1..*
     * @associates <b>ProductPrice</b>
     */
    private Vector priceObjects;
```

```
    /* =====
     * Constructors
     * ===== */
```

```
3104 /** Constructor requires all parameters. Type is defaulted to 0 since we
    aren't using it. */
```

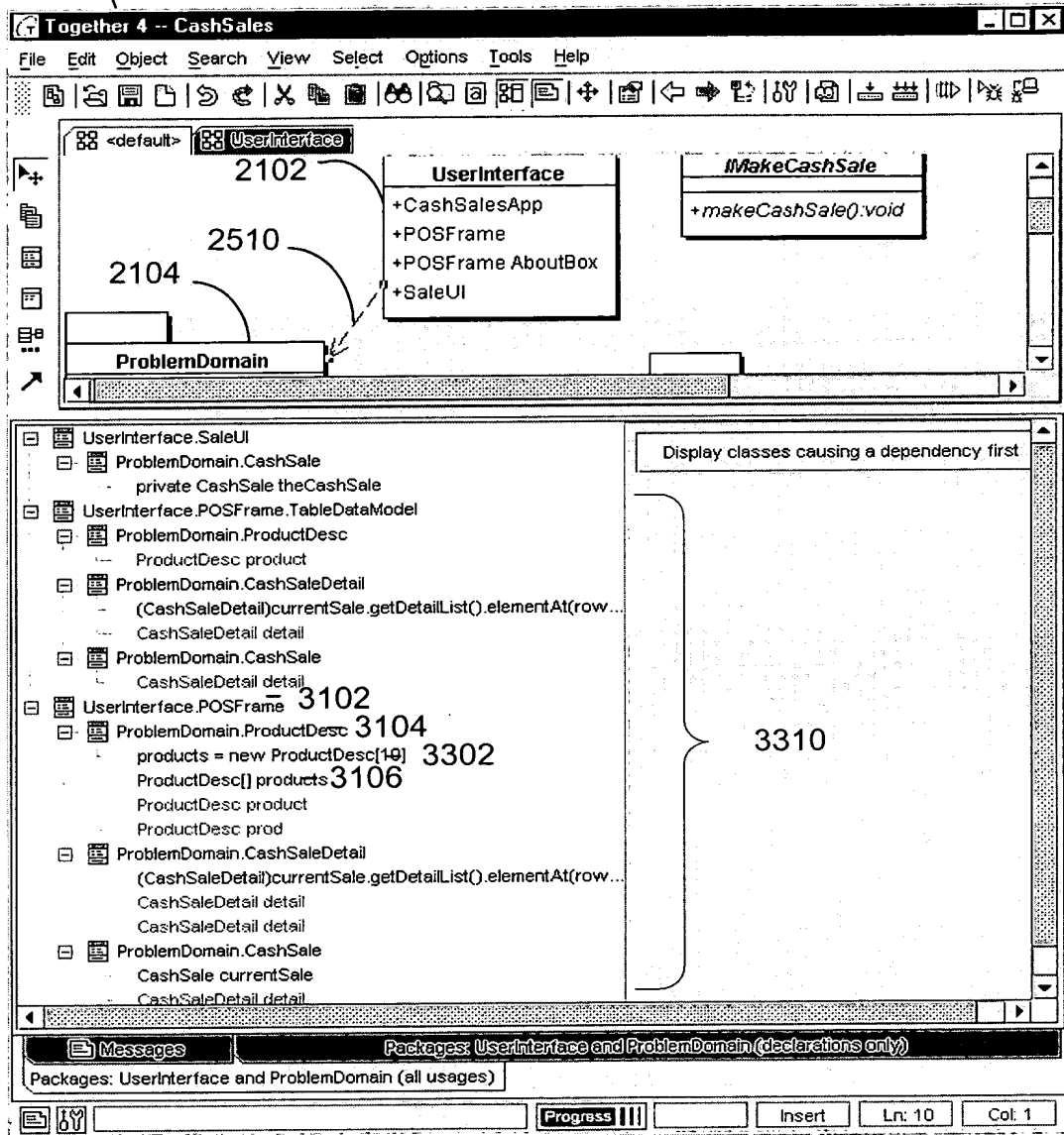
```
    public ProductDesc(String anItemNum, String aDesc, String aName,
        BigDecimal aPrice) {
        type = 0; // not currently used
        itemNumber = anItemNum;
        description = aDesc;
        name = aName;
        defaultPrice = aPrice;
        priceObjects = new Vector();
    } // END ProductDesc(...)
```

# FIG. 32

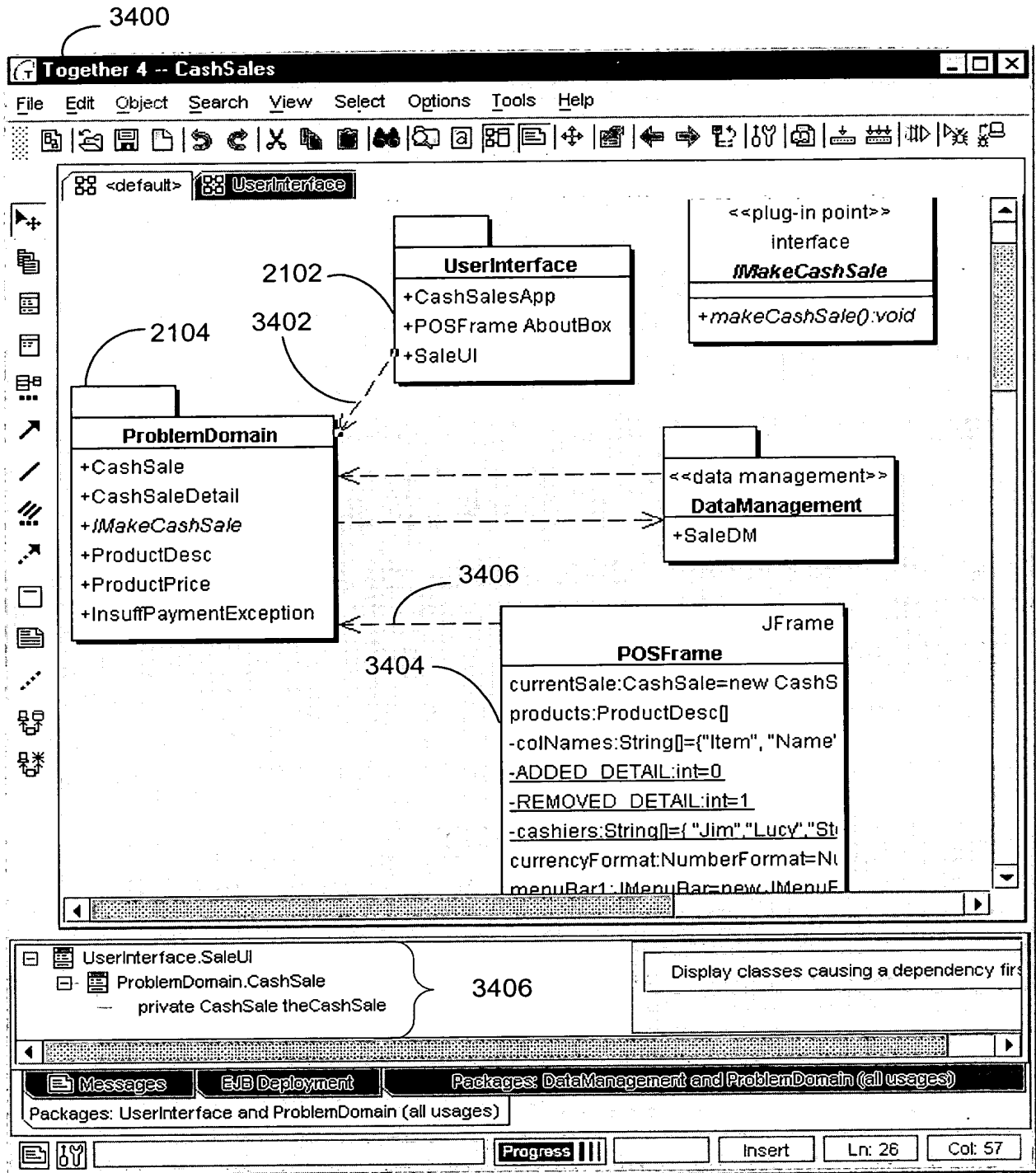


# FIG. 33

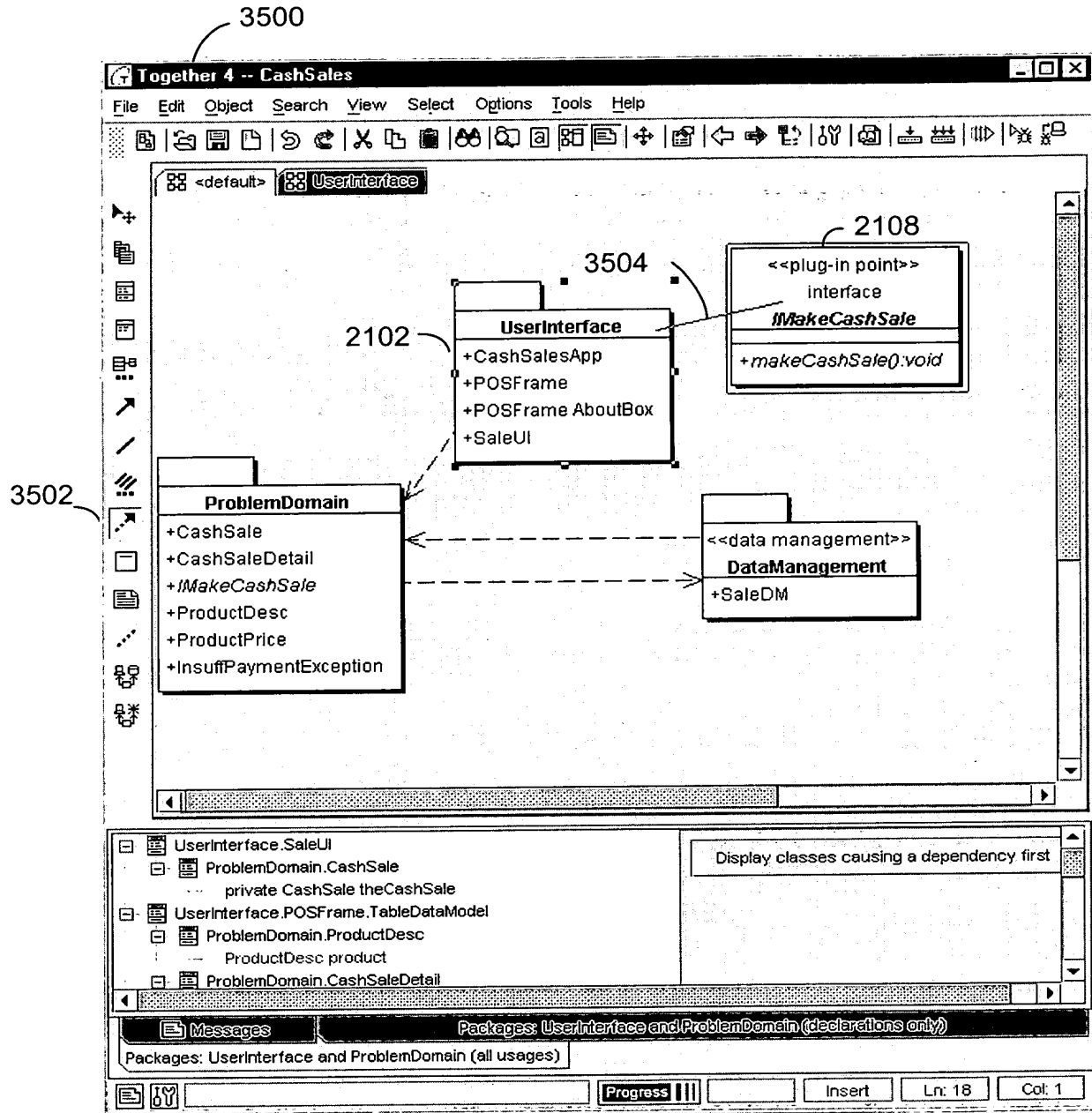
3300



# FIG. 34

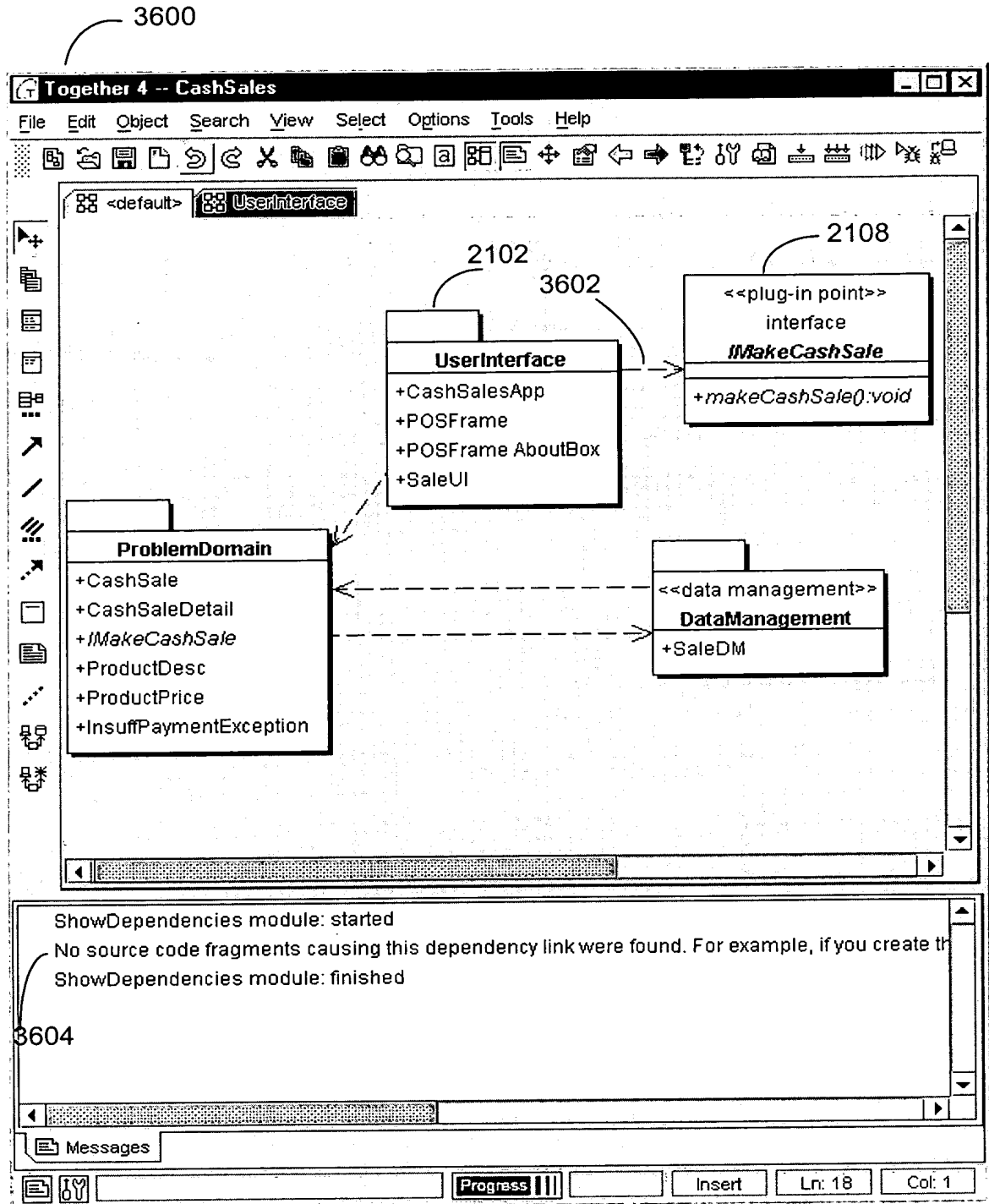


# FIG. 35





# FIG. 36



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